McGill University

ANNUAL CALENDAR

FOR SESSION 1905-1906

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FOR SESSION 1904-1905

Montreal:
1905

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McGill Coll.

ANNUAL CALENDAR

OF

McGILL COLLEGE

AND

UNIVERSITY

MONTREAL.

FOUNDED UNDER BEQUEST OF THE HON. JAMES McGILL,
ERECTED INTO A UNIVERSITY BY ROYAL CHARTER
IN 1821, AND RE-ORGANIZED BY AN
AMENDED CHARTER IN 1852.

SESSION 1905-1906

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Montreal:

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The *List of Graduates*, corrected to July, 1903, is published separately. Copies can be obtained on application to the Registrar.

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Macdonald Professor of Chemistry and Mineralogy, Lecturer in Assaying, and Director of Chemistry and Mining Building. 295 University Street.

Charles E. Moyse, B.A. (London), LL.D.
Vice-Principal and Dean of the Faculty of Arts, and Molson Professor of English Language and Literature. 802 Sherbrooke Street.

D. P. Penhallow, D.Sc., F.R.S.C.
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Professor of Semitic Languages and Oriental Literature. 171 Hutchison Street.

John Cox, M.A. (Cantab.), F.R.S.C., late Fellow Trin. Coll., Cambridge.
Macdonald Professor of Physics and Director of Physics Building. 241 University Street.

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Logan Professor of Geology and Palæontology. 243 Mountain St.

C. W. Colby, M.A. and Ph.D. (Harvard).
Kingsford Professor of History. 560 Pine Avenue.

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Strathcona Professor of Zoology. 28 Durocher Street.

Ernest Rutherford, M.A., D.Sc. (Univ. N.Z.), F.R.S.
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Macdonald Professor of Chemistry. 15 Lorne Avenue.

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A. Judson Eaton, A.M. (Leipsic), Ph.D.
Associate Professor of Classics. 245 University Street.

Paul T. Lafleur, M.A.
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Assistant Professor of Chemistry. 157 St. Famille Street.
Howard T. Barnes, D.Sc., F.R.S.C.
Assistant Professor of Physics. 327 Pine Avenue.
S. B. Slack, M.A. (Oxon.).
Assistant Professor of Classics. McGill College.
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Assistant Professor of Mathematics. McGill College.
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Assistant Professor in Botany. 46 Cathcart Street.
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Assistant Professor of Psychology and Lecturer in Philosophy. 272 Mountain Street.
J. L. Morin, M.A.
Lecturer in French. 65 Hutchison Street.
E. T. Lambert, B.A. (Lond.).
Lecturer in Modern Languages. 456 Mountain Ave., Westmount.
John W. Cunliffe, M.A. & D.Lit. (Lond.).
Lecturer in English Language and Literature. The Marlborough, 210 Milton Street.
J. Stafford, B.A. (Toronto), M.A., Ph.D. (Leipsic).
Lecturer in Zoology. McGill College.
S. B. Leacock, B.A. (Toronto), Ph.D. (Chicago).
Lecturer in Political Science and History. McGill College.
Susan E. Cameron, M.A.
Lecturer and Resident Tutor in English. Royal Victoria College.
Marie-Louise Milhau, Lic. Univ. France.
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Lecturer in Chemistry. McGill College.
Russell E. Macnaghten, B.A. (Cantab.).
Lecturer in Classics. 33 Concord Street.
A. S. Eve, M.A. (Cantab.).
Sessional Lecturer in Mathematics. McGill College.
Alfred W. G. Wilson, M.A., Ph.D. (Harvard), F.G.S.A.
Demonstrator in Geology. 197 Park Aveune.
R. K. McClung, B.A. (Cantab.), M.A.
Senior Demonstrator in Physics. McGill College.
S. J. Lloyd, B.Sc.
Demonstrator in Chemistry. McGill College.
R. W. Lord, B.Sc.
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Demonstrator in Chemistry. McGill College.
W. Lloyd Lodge, M.A. (Mt. Allison), B.Sc. (Queen's).
Demonstrator in Chemistry. 144 Drummond Street.
H. L. Bronson, Ph.D. (Yale).
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E. W. Sheldon, M.A.
Demonstrator in Physics. 844 Sherbrooke Street.
G. H. Cole, B.Sc.
Demonstrator in Physics. McGill College.
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Elizabeth A. Hammond, M.A.
Tutor in Classics. 224 St. Urbain Street.

M. Violette Dover, B.A., M.Sc.
Lecture-Assistant in Chemistry. 41 Burnside Place.
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W. J. Jacomb.
Instructor in Gymnastics. 19 University Street.
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Instructor in Gymnastics, Royal Victoria College. 128 Stanley St.

With the foregoing are associated:

F. P. Walton, B.A. (Oxon.), LL.B. (Edin.).
Gale Professor of Roman Law and Lecturer on Constitutional Law. 552 Pine Avenue.
C. H. McLeod, Ma.E., F.R.S.C.
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Macdonald Professor of Chemistry and Mineralogy, Lecturer in Assaying, and Director of Chemistry and Mining Building.
295 University Street.
C. H. McLeod, Ma.E., F.R.S.C.
Professor of Surveying and Geodesy, and Lecturer on Descriptive Geometry, Supt. of Meteorological Observatory.
Observatory, McGill College.
G. H. Chandler, M.A.
Professor of Applied Mathematics. 32 Lorne Avenue.
John Cox, M.A. (Cantab.), F.R.S.C., late Fellow Trin. Coll., Cambridge.
Macdonald Professor of Physics and Director of Physics Building. 241 University Street.
Frank D. Adams, M.A.Sc., Ph.D. (Heidelberg), D.Sc., F.G.S.A., F.R.S.C.
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243 Mountain Street.
J. Bonsall Porter, E.M., Ph.D. (Columbia), M. Inst. C.E., F.G.S.A.
Macdonald Professor of Mining Engineering. 392 Pine Avenue.
Ernest Rutherford, M.A., D.Sc. (Univ. N.Z.), F.R.S.
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H. S. BIRKETT, M.D.
Professor of Laryngology. 252 Mountain Street.
F. G. FINLEY, M.B. (London), M.D.
Assistant Professor of Medicine and Associate Professor of Clinical Medicine. 1013 Dorchester Street.
H. A. LAFLEUR, B.A., M.D.
Assistant Professor of Medicine and Associate Professor of Clinical Medicine. 58 University Street.
GEORGE E. ARMSTRONG, M.D.
Associate Professor of Clinical Surgery. 320 Mountain Street.
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Professor of Mental Diseases. Drawer 2381, Montreal.

C. F. Martin, B.A., M.D.
Assistant Professor of Medicine and Clinical Medicine. 33 Durocher Street.

John M. Elder, B.A., M.D.
Assistant Professor of Surgery, and Lecturer in Clinical Surgery. 4201 Sherbrooke St., Westmount.

J. G. McCarthy, M.D.
Assistant Professor of Anatomy. 61 Drummond Street.

W. S. Morrow, M.D.
Assistant Professor of Physiology. 82 Union Avenue.

A. G. Nichols, M.A., M.D.
Assistant Professor of Pathology. 2728 St. Catherine Street.

J. J. Gardner, M.D.
Lecturer in Ophthalmology. 147 Bishop Street.

J. A. Springle, M.D.
Lecturer in Applied Anatomy. 1237 Dorchester Street.

F. A. L. Lockhart, M.B. (Edin.).
Lecturer in Gynæcology. 38 Bishop Street.

A. E. Garrow, M.D.
Lecturer in Surgery and Clinical Surgery. 2726 St. Catherine Street.

W. F. Hamilton, M.D.
Lecturer in Clinical Medicine. 287 Mountain Street.

G. Gordon Campbell, B.Sc., M.D.
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D. J. Evans, M.D.
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Lecturer in Ophthalmology. 255 Mountain Street.

J. Alex. Hutchison, M.D.
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W. W. Chipman, B.A., M.D. (Edin.), F.R.C.S. (Edin.).
Lecturer in Gynæcology. 285 Mountain Street.

R. A. Kerry, M.D.
Lecturer in Pharmacology and Therapeutics. 122 Stanley Street.

S. Ridley Mackenzie, M.D.
Lecturer in Clinical Medicine. 219 Peel Street.

John McCrae, B.A., M.B., L.R.C.P. (Lond.).
Lecturer in Pathology. 190 Peel Street.

D. A. Shirres, M.D. (Aberdeen).
Lecturer in Neuro-Pathology. 919 Dorchester Street.

D. D. McTaggart, M.D.
Lecturer in Medico-Legal Pathology and Demonstrator of Pathology. 705 Sherbrooke Street.

J. W. Scane, M.D.
Lecturer on Pharmacology and Therapeutics. McGill College.

A. A. Robertson, B.A., M.D.
Lecturer in Philosophy. 136 Mansfield Street.

W. G. M. Byers, M.D.
Lecturer in Ophthalmology and Otology. 192 Peel Street.

J. R. Roebuck, B.A.
Lecturer in Chemistry. Medical Faculty, McGill.

W. M. Fisk, M.D.
Lecturer in Histology. 53 Prince Arthur Street.

OSKAR KLOTZ, M.B. (Toronto).
Demonstrator in Pathology and Bacteriology.
Royal Victoria Hospital.

J. A. HENDERSON, M.D.
Demonstrator in Anatomy. 34 Park Avenue.

KENNETH CAMERON, B.A., M.D.
Demonstrator of Clinical Surgery. 903 Dorchester Street.

E. J. SEMPLE, B.A., M.D.
Demonstrator of Surgical Pathology. 375 St. Antoine Street.

J. J. ROSS, B.A., M.D.
Demonstrator of Anatomy. 414 Bourgeois Street.

A. E. ORR, M.D.
Demonstrator of Anatomy. 900 Dorchester Street.

H. B. YATES, B.A. (Cantab.), M.D.
Demonstrator of Bacteriology. 257 Peel Street.

J. D. CAMERON, B.A., M.D.
Demonstrator of Gynæcology. 2068 St. Catherine Street.

H. D. HAMILTON, M.A. (Bishop's), M.D., L.R.C.P. & S. (Edin.), L.F.P. & S. (Glasgow).
Demonstrator of Laryngology and Rhinology. 202 Peel Street.

JAMES BARCLAY, M.D.
Demonstrator of Obstetrics. 147A Stanley Street.

A. H. GORDON, M.D.
Demonstrator of Physiology, and Assistant Demonstrator of Clinical Medicine. 125 Hutchison Street.

F. B. JONES, M.D., D.P.H.
Demonstrator in Hygiene. 501 Sherbrooke Street.

H. B. CUSHING, B.A., M.D.
Demonstrator of Histology. 231 Stanley Street.

W. A. DORION, M.D.
Demonstrator of Histology. St. Catherine Street.

E. W. ARCHIBALD, B.A., M.D.
Demonstrator of Clinical Surgery. 190 Peel Street.

W. L. BARLOW, M.D.
Demonstrator of Clinical Surgery. 8 Bishop Street.

C. B. KEENAN, M.D.
Demonstrator of Clinical Surgery. 376 Mountain Street.

J. A. WILLIAMS, M.D.
Assistant Demonstrator of Bacteriology. 450 Guy Street.

R. A. WESTLEY, M.D.
Assistant Demonstrator of Anatomy. Windsor Hotel.

H. M. CHURCH, M.D.
Assistant Demonstrator of Anatomy. 354 Greene Ave.

A. T. BAZIN, M.D.
Assistant Demonstrator of Anatomy. 454 St. Antoine Street.

A. MACKENZIE FORBES, M.D.
Assistant Demonstrator of Anatomy. 231 Stanley Street.

H. R. D. GRAY, B.A., M.D.
Assistant Demonstrator of Obstetrics. 59 Beaver Hall Hill.

C. F. WYLDE, M.D.
Assistant Demonstrator of Clinical Microscopy. 56 Mackay Street.

DAVID PATRICK, M.D.
Assistant Demonstrator of Gynæcology. 4174 St. Catherine Street.

C K. P. HENRY, M.D.
Assistant Demonstrator of Anatomy. 374 Greene Ave.

A. R. PENNOYER, M.D.
Assistant Demonstrator of Anatomy. 2624 St. Catherine Street.

D. W. B. GILLIES, M.D.
Assistant Demonstrator of Clinical Medicine. McGill College.

C. A. PETERS, M.D.
Assistant Demonstrator of Clinical Medicine.
2810 St. Catherine Street.

G. K. Grimmer, B.A. (Univ. N. B.), M.D. (Edin.), F.R.C.S. (Edin.).
Assistant Demonstrator of Laryngology and Rhinology.
169 Peel Street.

W. H. Jamieson, M.D.
Assistant Demonstrator of Laryngology and Rhinology.
209 Peel Street.

F. M. Fry, M.D.
Assistant Demonstrator of Clinical Medicine. 939 Dorchester St.

J. W. Duncan, M.D.
Assistant Demonstrator of Obstetrics. 27 Bishop Street.

J. G. Browne, M.D.
Assistant Demonstrator of Obstetrics. 1171 St. Denis Street.

E M. von Eberts, M.D.
Assistant Demonstrator of Clinical Surgery. 107 Metcalfe Street.

W. H. P. Hill, M.D.
Assistant Demonstrator of Clinical Surgery.
2492 St. Catherine Street.

Dental Department.

Peter Brown, L.D.S.
Professor of Operative Dentistry and Operative Technique. 14 Phillips Square.

Fred. G. Henry, D.D.S.
Professor of Dental Pathology, Dental Materia-Medica and Therapeutics. 2498 St. Catherine Street

D. James Berwick, D.D.S.
Professor of Prosthetic Dentistry, Metallurgy and Crown and Bridge Work. Inglis Building, 2381 St. Catherine Street.

E. R. Barton, D.D.S.
Lecturer on Dental Anatomy, and Human and Comparative, and Dental Surgery. McGill College.

James B. Morrison, D.D.S.
Lecturer on Orthodontia. 14 Phillips Square.

A. D. Angus, D.D.S.
Demonstrator on Operative Technique. 14 Phillips Square.

W. D. Smith, D.D.S.
Demonstrator on Prosthetic Dentistry and Bridge Work.
Room 82 Bank of Ottawa Building, St. James Street.

Professors Emeriti.

(Retaining their Rank and Titles, but retired from work.)

Alex. Johnson, M.A., LL.D., D.C.L., F.R.S.C.
Vice-Principal Emeritus, and Emeritus Professor in the Faculty of Arts. 895 Sherbrooke Street.

Wm. Wright, M.D.
Emeritus Professor in the Faculty of Medicine. 84 St. Famille St.

Hon. Matthew Hutchinson, D.C.L.
Emeritus Professor in the Faculty of Law. Sherbrooke, Que.

Hon. J. Emery Robidoux, D.C.L.
Emeritus Professor in the Faculty of Law. 396 St. Denis Street.

Gilbert P. Girdwood, M.D., M.R.C.S., F.R.S.C., F.I.C.
Emeritus Professor in the Faculty of Medicine. 111 University St.

J. Clark Murray, LL.D., F.R.S.C.
Emeritus Professor in the Faculty of Arts. 20 McTavish Street.

Duncan McEachran, D.V.S., F.R.C.V.S.
Emeritus Dean and Professor in the Faculty of Comparative Medicine and Veterinary Science 176 University Street.

SEPTEMBER, 1905.

1	Friday	Normal School opens.
2	Saturday	
3	SUNDAY	
4	Monday	
5	Tuesday	
6	Wednesday	
7	Thursday	
8	Friday	
9	Saturday	
10	SUNDAY	
11	Monday	Matriculation, Exhibition, Scholarship, Supplemental Examinations in Arts. Register opens for students in Medicine.
12	Tuesday	Lectures in Law begin.
13	Wednesday	
14	Thursday	Finance Committee.
15	Friday	Meeting of Governors
16	Saturday	
17	SUNDAY	
18	Monday	College Grounds Committee. Engineering Building Committee. Chemistry and Mining Building Committee.
19	Tuesday	Meeting of Examiners. Examination in Summer Reading, Applied Science. New Medical Buildings opened, 1901.
20	Wednesday	Lectures in all Faculties (except Law) begin. Exemption Examination in English, Faculty Applied Science. Conservatorium of Music opens.
21	Thursday	
22	Friday	Meeting of Faculty of Arts.
23	Saturday	
24	SUNDAY	
25	Monday	
26	Tuesday	
27	Wednesday	
28	Thursday	
29	Friday	
30	Saturday	

OCTOBER, 1905.

1	SUNDAY	
2	Monday	Summer Essays in Applied Science to be sent in. Meeting of Faculty of Applied Science.
3	Tuesday	
4	Wednesday	Normal School Committee. Meeting of Academic Board.
5	Thursday	Physics Building Committee.
6	Friday	Founder's Birthday. University Lecture. Meeting of Faculty of Arts
7	Saturday	Meeting of Faculty of Medicine.
8	SUNDAY	
9	Monday	Museum Committee. Library Committee.
10	Tuesday	William Molson Hall opened, 1862.
11	Wednesday	Regular Meeting of Corporation. Annual Report to the Visitor.
12	Thursday	Finance Committee.
13	Friday	Sports Day.
14	Saturday	Conservatorium of Music opened, 1904.
15	SUNDAY	
16	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
17	Tuesday	
18	Wednesday	
19	Thursday	
20	Friday	Meeting of Governors.
21	Saturday	
22	SUNDAY	
23	Monday	
24	Tuesday	
25	Wednesday	
26	Thursday	
27	Friday	Meeting of Faculty of Arts.
28	Saturday	
29	SUNDAY	
30	Monday	
31	Tuesday	New Library opened, 1893.

NOTE.—Meetings of the Faculty of Arts are held at 4 P.M. unless otherwise specified.

1 Wednesday	
2 Thursday	
3 Friday	
4 Saturday	Meeting of Faculty of Medicine.
5 SUNDAY	
6 Monday	Meeting of Faculty of Applied Science.
7 Tuesday	
8 Wednesday	
9 Thursday	Edward VII born, 1841. Finance Committee.
10 Friday	
11 Saturday	
12 SUNDAY	
13 Monday	
14 Tuesday	
15 Wednesday	
16 Thursday	
17 Friday	Meeting of Governors. Meeting of Faculty of Arts.
18 Saturday	
19 SUNDAY	
20 Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
21 Tuesday	
22 Wednesday	
23 Thursday	
24 Friday	
25 Saturday	
26 SUNDAY	
27 Monday	
28 Tuesday	
29 Wednesday	
30 Thursday	

DECEMBER, 1905.

1 Friday	
2 Saturday	Meeting of Faculty of Medicine.
3 SUNDAY	
4 Monday	Meeting of Faculty of Applied Science.
5 Tuesday	
6 Wednesday	Meeting of Academic Board.
7 Thursday	Physics Building Committee.
8 Friday	Meeting of Faculty of Arts.
9 Saturday	
10 SUNDAY	
11 Monday	Museum Committee. Library Committee.
12 Tuesday	
13 Wednesday	Regular Meeting of Corporation.
14 Thursday	Finance Committee
15 Friday	Meeting of Governors.
16 Saturday	
17 SUNDAY	
18 Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
19 Tuesday	
20 Wednesday	Chemistry and Mining Building opened, 1898.
21 Thursday	Term ends in all Faculties.
22 Friday	Meeting of Faculty of Arts.
23 Saturday	
24 SUNDAY	
25 Monday	Christmas-Day.
26 Tuesday	
27 Wednesday	
28 Thursday	
29 Friday	
30 Saturday	
31 SUNDAY	

1	Monday	Meeting of Faculty of Applied Science.
2	Tuesday	
3	Wednesday	Normal School Committee.
4	Thursday	Lectures in Arts, Law, Applied Science and Medicine resumed.
5	Friday	
6	Saturday	Meeting of Faculty of Medicine.
7	SUNDAY	
8	Monday	
9	Tuesday	
10	Wednesday	
11	Thursday	Finance Committee.
12	Friday	Meeting of Faculty of Arts.
13	Saturday	
14	SUNDAY	
15	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
16	Tuesday	
17	Wednesday	
18	Thursday	
19	Friday	Meeting of Governors.
20	Saturday	
21	SUNDAY	
22	Monday	Queen Victoria died, 1901.
23	Tuesday	
24	Wednesday	
25	Thursday	
26	Friday	
27	Saturday	
28	SUNDAY	
29	Monday	
30	Tuesday	
31	Wednesday	Theses for M.A. to be sent in.

FEBRUARY, 1906.

1	Thursday	
2	Friday	
3	Saturday	Meeting of Faculty of Medicine.
4	SUNDAY	
5	Monday	Meeting of Faculty of Applied Science.
6	Tuesday	
7	Wednesday	Meeting of Academic Board.
8	Thursday	Finance Committee. Physics Building Committee.
9	Friday	Meeting of Faculty of Arts.
10	Saturday	
11	SUNDAY	
12	Monday	Museum Committee. Library Committee.
13	Tuesday	
14	Wednesday	Regular Meeting of Corporation.
15	Thursday	
16	Friday	Meeting of Governors.
17	Saturday	
18	SUNDAY	
19	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
20	Tuesday	
21	Wednesday	
22	Thursday	
23	Friday	Meeting of Faculty of Arts.
24	Saturday	Physics and Engineering Buildings opened 1893.
25	SUNDAY	
26	Monday	
27	Tuesday	
28	Wednesday	Ash Wednesday. No lectures.

1 Thursday	
2 Friday	
3 Saturday	Meeting of Faculty of Medicine.
4 SUNDAY	
5 Monday	Meeting of Faculty of Applied Science.
6 Tuesday	
7 Wednesday	Meeting of Academic Board.
8 Thursday	Finance Committee.
9 Friday	
10 Saturday	
11 SUNDAY	
12 Monday	
13 Tuesday	
14 Wednesday	
15 Thursday	
16 Friday	Meeting of Governors.
17 Saturday	
18 SUNDAY	
19 Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
20 Tuesday	
21 Wednesday	
22 Thursday	
23 Friday	Meeting of Faculty of Arts. Reports of Attendance on Lectures.
24 Saturday	
25 SUNDAY	
26 Monday	
27 Tuesday	
28 Wednesday	
29 Thursday	
30 Friday	Last day of Lectures in Arts, Law and Applied Science.
31 Saturday	

APRIL, 1906.

1 SUNDAY	
2 Monday	Meeting of Faculty of Applied Science.
3 Tuesday	
4 Wednesday	Normal School Committee.
5 Thursday	Physics Building Committee. Examinations in Arts begin.
6 Friday	Meeting of Faculty of Arts. Winter term, Faculty of Medicine, ends.
7 Saturday	Meeting of Faculty of Medicine.
8 SUNDAY	
9 Monday	Museum Committee. Library Committee.
10 Tuesday	
11 Wednesday	Regular Meeting of Corporation.
12 Thursday	Finance Committee.
13 Friday	Good Friday, Easter vacation begins.
14 Saturday	
15 SUNDAY	Easter Sunday.
16 Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
17 Tuesday	Easter vacation ends. Spring term begins, Faculty of Medicine.
18 Wednesday	
19 Thursday	
20 Friday	Meeting of Governors. Meeting of Faculty of Arts.
21 Saturday	
22 SUNDAY	
23 Monday	
24 Tuesday	
25 Wednesday	
26 Thursday	
27 Friday	Convocation for Degrees in Arts, Law, and Applied Science.
28 Saturday	
29 SUNDAY	
30 Monday	

1	Tuesday	Summer Classes in Arts begin.
2	Wednesday	
3	Thursday	
4	Friday	
5	Saturday	Meeting of Faculty of Medicine.
6	SUNDAY	
7	Monday	Meeting of Faculty of Applied Science.
8	Tuesday	
9	Wednesday	
10	Thursday	Finance Committee.
11	Friday	
12	Saturday	
13	SUNDAY	
14	Monday	Chemistry and Mining Building Committee. College Grounds Committee.
15	Tuesday	
16	Wednesday	
17	Thursday	
18	Friday	Meeting of Governors. Lectures end, Faculty of Medicine.
19	Saturday	
20	SUNDAY	
21	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
22	Tuesday	
23	Wednesday	
24	Thursday	
25	Friday	
26	Saturday	
27	SUNDAY	
28	Monday	Examinations begin, Faculty of Medicine.
29	Tuesday	
30	Wednesday	
31	Thursday	Normal School closes.

JUNE, 1906.

1	Friday	
2	Saturday	Meeting of Faculty of Medicine.
3	SUNDAY	Whit Sunday.
4	Monday	
5	Tuesday	
6	Wednesday	Normal School Committee.
7	Thursday	Physics Building Committee.
8	Friday	Spring Term ends, Faculty of Medicine. Convocation for degrees in Medicine. Summer Classes in Arts end.
9	Saturday	
10	SUNDAY	Trinity Sunday.
11	Monday	Museum Committee. Library Committee.
12	Tuesday	
13	Wednesday	Regular Meeting of Corporation.
14	Thursday	Finance Committee.
15	Friday	Meeting of Governors.
16	Saturday	
17	SUNDAY	
18	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	
24	SUNDAY	
25	Monday	
26	Tuesday	
27	Wednesday	
28	Thursday	
29	Friday	
30	Saturday	

1 SUNDAY
2 Monday
3 Tuesday
4 Wednesday
5 Thursday
6 Friday
7 Saturday
8 SUNDAY
9 Monday
10 Tuesday
11 Wednesday
12 Thursday
13 Friday
14 Saturday
15 SUNDAY
16 Monday
17 Tuesday
18 Wednesday
19 Thursday
20 Friday
21 Saturday
22 SUNDAY
23 Monday
24 Tuesday
25 Wednesday
26 Thursday
27 Friday
28 Saturday
29 SUNDAY
30 Monday
31 Tuesday

AUGUST, 1906.

1 Wednesday
2 Thursday
3 Friday
4 Saturday
5 SUNDAY
6 Monday
7 Tuesday
8 Wednesday
9 Thursday
10 Friday
11 Saturday
12 SUNDAY
13 Monday
14 Tuesday
15 Wednesday
16 Thursday — Peter Redpath Museum opened, 1882.
17 Friday
18 Saturday
19 SUNDAY
20 Monday
21 Tuesday
22 Wednesday
23 Thursday
24 Friday
25 Saturday
26 SUNDAY
27 Monday
28 Tuesday
29 Wednesday
30 Thursday
31 Friday

Buildings and Grounds of McGill University.

McGill University.

GENERAL INFORMATION.

Foundation and Early History.

Almost alone in this respect among Canadian colleges and universities, McGill University owes its origin to a private endowment. Its founder, the Hon. James McGill, from whom the University takes its name, was born on the 6th October, 1744, in Glasgow, Scotland, where he received his early education and training. Emigrating to Canada before the American Revolution, he engaged in the North-West fur trade, then one of the leading branches of business in Canada. Subsequently he settled in Montreal, and, in partnership with his brother, Andrew McGill, became one of its leading merchants, distinguished for his public spirit and his exertions for the advancement of the city. He was lieutenant-colonel and subsequently colonel of the Montreal City Militia, and, in his old age, on the breaking out of the American war of 1812, he became brigadier-general, and was prepared to take the field in defence of his country. He also represented the West Ward of Montreal in the Provincial Legislature, and was afterwards a member of the Legislative and Executive Councils. Cultivating and enjoying the society of the few men of learning then in the colony, he took a special interest in the establishment of an educational system in the Province of Quebec. By his will, bearing date the 8th January, 1811, more than two years before his death, which happened on the 19th December, 1813, he bequeathed his property of Burnside and a sum of £10,000 in money to found a college in a provincial university, the erection of which had already been provided for by the generosity of the British Government. Three leading citizens of Montreal were among the trustees appointed under his will, who were directed to convey the subject property of the bequest to the Royal Institution for the Advancement of Learning, a body which, in 1802, had been incorporated by the Legislature "for the establishment of Free Schools and the advancement of Learning" in the Province of Quebec. The conditions upon which the property was to be transferred to the Royal Institution for the Advancement of Learning were, mainly, that that Institution should, within ten years after the testator's decease, erect and establish on his Burnside estate "an University or College, for the purposes of education and the advancement of learning in this Province," and that the college, or one of the colleges, in the University, if established, should "be named and perpetually be known and distinguished by the appellation of McGill College." Owing to persistent opposition by the leaders of one section of the people to any system of governmental education and to the refusal by the Legislature to make the grants of land and money which had been promised, the proposed establishment of the provincial university by the British Government was abandoned.

In so far as the McGill College was concerned, however, the Royal Institution at once took action by applying for a Royal Charter. Such a charter was granted in 1821, and the Royal Institution prepared to take possession of the estate. But, owing to protracted litigation, this was not surrendered to them till 1829. Commencing then the work of teaching with two faculties, Arts and Medicine, the record of the first thirty years of the University's existence is an unbroken tale of financial embarrassment and administrative difficulties. The charter was cumbrous and unwieldy, and unsuited to a small college in the circumstances of this country, and the University, with the exception of its medical faculty, became almost extinct. But after thirty years the citizens of Montreal awoke to the value of the institution which was struggling in their midst. Several gentlemen undertook the responsibility of its renovation, and, in 1852, an amended charter was secured. The Governor-General of Canada for the time being, Sir Edmund Head, became interested in its fortunes, and in 1855, with the advent of a new Principal, an era of progress and prosperity began.

Constitution of the University.

By the amended Charter "the Governors, Principal, and Fellows" of the University are constituted a body politic and corporate, with all the usual rights and privileges of corporate bodies. The supreme authority of the University, however, is vested in the crown, and is exercised by His Excellency the Governor-General of Canada for the time being as **Visitor.** This is a special and important feature of the constitution, for, while it gives the University an imperial character and removes it at once from any merely local or party influence, it secures the patronage of the head of the political system of the country.

The **Governors** of the University are the members of the Royal Institution for the Advancement of Learning, above mentioned, and in them are vested the management of finances, the passing of University statutes and ordinances, the appointment of professors, and other important duties. Their number is limited to fifteen, and vacancies are filled by the nomination of the remaining members, with the approval of the Visitor. The President of the Board of Governors is, *ex-officio,* Chancellor of the University.

The **Principal** is the academic head and chief administrative officer. He is appointed by the Board of Governors, and is, *ex-officio,* Vice-Chancellor of the University.

The **Fellows** are limited to 43 in number, and are selected with reference to the representation of all the faculties and

departments of the University, of affiliated colleges, and of other bodies.

The Governors, Principal and Fellows, together constitute the **Corporation**, the highest academical body. Its powers are fixed by statute, and include the framing of all regulations touching courses of study, matriculation and graduation, and the granting of degrees.

The Principal, the Deans of the several Faculties, the Professors and Associate Professors, and other members, not exceeding ten in number, of the teaching staff, constitute the **Academic Board** of the University, with the duty of considering such matters as pertain to the interests of the University as a whole, and of making recommendations concerning the same.

The Statutes and Regulations of the University have been framed on the most liberal principles, with the view of affording to all classes of persons the greatest possible facilities for the attainment of mental culture and professional training.

Faculties and Courses.

The educational work of the University is carried on in McGill College, the Royal Victoria College for Women, and other University buildings in Montreal, and in affiliated colleges.

The Faculties are four in number:

The Faculty of Arts.—The undergraduate courses of study extend over four Sessions of seven and a half months each. In the third and fourth years extensive options are provided, and certain exemptions also are allowed to professional students. The courses of study lead to the Degrees of B.A., M.A., B.Sc., M.Sc., D.Sc., and D.Litt. The Degree of B.A. from this University admits the holder to the study of the learned professions, without preliminary examination, in the Provinces of Canada, and in Great Britain and Ireland, and elsewhere.

The undergraduate course in Arts can be taken along with the undergraduate course in Medicine or Applied Science in six years, or with the undergraduate course in Law in five years. This is effected by avoiding the duplication of courses in the same subjects or in those which give the same educational training, and by a proper adaptation of the time tables.

Alternatively, a certificate of Literate in Arts is given along with the Degree in Medicine, Applied Science, or Law, to candidates who have completed two years in Arts before entering the professional Faculty.

The curriculum in Arts provides for the education of women, mainly in separate classes, with courses of study, exemptions, degrees and honours identical with those for men.

The Faculty of Applied Science.—The undergraduate courses of study extend over four Sessions of seven and a half months each, and provide a thorough professional training in Architecture, Chemistry, Civil Engineering, Electrical Engineering, Mechanical Engineering, Metallurgy, Mining Engineering and Transportation. The courses of study lead to the Degrees of B.Arch., B.Sc., M.Sc., and D.Sc. The undergraduate course in Arts can be taken along with the undergraduate course in Applied Science in six years.

The Faculty of Law.—The undergraduate course extends over three Sessions of eight months each, and leads to the Degrees of B.C.L., and D.C.L. The undergraduate course in Arts can be taken along with the undergraduate course in Law in five years.

The Faculty of Medicine.—The undergraduate course of study extends over four Sessions of nine months each, and leads to the Degree of M.D., C.M., and, in the Department of Dentistry, to the Degrees of M.D.S and D.D.S. The undergraduate course in Arts can be taken along with the undergraduate course in Medicine in six years.

Conservatorium of Music.—Thorough instruction in all branches of music is given in the Conservatorium of Music recently established in connection with the University (799 Sherbrooke Street.) The courses followed are those prescribed for the different examinations of the Associated Board of the Royal Academy of Music and the Royal College of Music of London, England, in conjunction with which body the University has arranged to carry on throughout Canada the Examinations in Music hitherto conducted by the Associated Board alone. Under this arrangement, the University is responsible for the proper and effective conduct of the Examinations, and successful candidates are entitled to receive

certificates bearing the imprimatur of the University as well as that of the Associated Board.

These examinations comprise School Examinations (Elementary, Lower and Higher divisions) and Local Centre Examinations (Intermediate and Advanced grades)—the Advanced grade calling for a high degree of proficiency. They are of graduated difficulty, and are theoretical and practical in character, embracing Rudiments of Music, Harmony and Grammar of Music, Counterpoint, Pianoforte, Organ, Violin, Harp, Wind Instruments, Singing, etc. In addition to those above-named there is an examination for individual Teaching Certificates and title of Licentiate of the Associated Board.

The examinations in Practical subjects will be held during May and those in Theory in the early part of the same month.

Full details of the requirements for each examination, fees, etc., are published in a separate syllabus, which can be obtained (free), together with specimen Theory papers (price ten cents) and full information, on application to the Secretary of the Conservatorium of Music.

For information as to the higher courses leading to University Degrees in Music, which it is proposed to institute in connection with the Conservatorium, application should be made to the Registrar of the University.

Affiliated Colleges.

Students of Affiliated Colleges are matriculated in the University, and may pursue their course of study in the Affiliated College, or in part in the Affiliated College, and in part in McGill College, as the case may be, and may come up to the University Examinations on the same terms as the students of McGill College.

The Stanstead Wesleyan College, Stanstead, P. Q.—Is affiliated in so far as regards the work of the first two years in Arts. Detailed information may be obtained from the Rev. C. R. Flanders, B.A., D.D., Principal.

Vancouver College, Vancouver, B.C.—Is affiliated in so far as regards the work of the first two years in Arts. Detailed information may be obtained from J. C. Shaw, M.A., Principal

Victoria College, Victoria, B.C.—Is affiliated in so far as regards the work of the First Year in Arts. Detailed information may be obtained from Edward B. Paul, M.A., Principal.

King's College, Windsor, N.S.—Is affiliated in so far as regards the work of the first two years in Arts, on the understanding that students who may intend to proceed to a McGill degree shall qualify for matriculation, and shall also take the McGill Sessional Examinations of the first two years. Full information may be obtained from Ian C. Hannah, M.A., Principal.

Affiliated Theological Colleges.

Students of the following Affiliated Theological Colleges may attend the courses of study in Arts, either as undergraduates or partial students, with such facilities in regard to exemptions as may be agreed on:—

The Congregational College of Canada, Montreal.—Principal, Rev. E. M. Hill, D.D., 58 McTavish St.

The Diocesan College of Montreal,—Principal, Rev. E. I. Rexford, M.A., LL.D., 201 University St.

The Presbyterian College, Montreal, in connection with the Presbyterian Church in Canada. Principal, Rev. John Scrimger, M.A., D.D.

The Wesleyan College of Montreal,—Principal, Rev. W. I. Shaw, D.D., LL.D.

Calendars of each of the above Colleges and all necessary information may be obtained on application to the Principals.

McGill Normal School.

The McGill Normal School provides the training requisite for Teachers of Elementary and Model Schools and Academies. Teachers trained in this school are entitled to Provincial Diplomas, and are encouraged by the offer of Bursaries to enter the classes in the Faculty of Arts for Academy Diplomas and for the Degree of B.A.. Copies of the School announcement may be obtained from the Principal, S. P. Robins, LL.D., 32 Belmont St., Montreal.

Graduates of the McGill Normal School who are actually engaged in teaching may attend any of the classes in Arts as partial students, on payment of a special fee of ten dollars for each course.

Affiliated High Schools, Etc.

Schools in which candidates are prepared for matriculation are reckoned as affiliated schools in that sense.

The following schools prepared successful candidates for the University School Examinations, or for matriculation (June, 1904).

Abingdon School, Montreal; All Hallows' School, Yale, B.C.; Ashbury College, Ottawa; Bedford Academy; Bishop's College School, Lennoxville; Boys' High School, Quebec; Brantford Collegiate Inst.; Brockville Collegiate Inst.; Coaticook Academy; Cookshire Academy; Danville Academy; Diocesan College, Preparatory School; Dunham Ladies' College; Dutton High School, Ontario; Feller Institute; Gault Institute, Valleyfield; Girls' High School, Quebec; Granby Academy; Hamilton Collegiate Inst.; Harbord Street Collegiate Inst., Toronto; Hawkesbury High School; Harmon School, Ottawa; High Schools, Montreal; Huntingdon Acad.; Inverness Acad.; Lachine Acad.; Lachute Acad.; Lennoxville Academy; Marlborough Coll., Eng.; Mount St. Louis Inst.; Napanee Coll. Inst.; New Westminister High School, B.C.; Ottawa Coll. Inst.; Potsdam School, Jamaica; Ormstown Academy; Rossland High School, B.C.; Rothesay Coll., N.B.; School of St. John the Evangelist; Sherbrooke High School; Shortell's Academy, Montreal; Stanstead College School; St. Francis College School; St. Lambert Acad.; St. Alban's School, Brockville; St. John (N.B.) High School; St. Johns High School; Sutton Acad.; Trafalgar Institute, Montreal; Trinity College School, Port Hope; Upper Canada College; Vancouver College, Vancouver, B.C.; Victoria College, Victoria, B.C.; Waterloo Acad.; Westmount Acad.; Wesley College, Winnipeg.

Affiliation to Other Universities.

The University is affiliated to the Universities of Oxford, Cambridge and Dublin, under conditions which allow an undergraduate who has taken two years' work, and has passed the Second Year Sessional Examination in Arts, to pursue his studies and take his Degree at any of those universities on a reduced period of residence.

The Session.

The University Year or Session is divided into two terms, the first extending to the Christmas vacation, and the second from the expiry of the Christmas vacation to the date appointed for the meeting of Convocation for the conferring of degrees.

The annual university lecture will be delivered on October 6th, 1905.

The Session 1905-1906 will commence in all Faculties * on Wednesday, September 20th, 1905, and will end in the Faculties of Arts, Applied Science and Law on April 27th, 1906, and in the Faculty of Medicine, on June 8th, 1906.

Matriculation Examinations (for entrance to all Faculties) will be held in June, 1905, and in the following September. (For the September Examination time table, see pp. 23 and 24).

Second Year Exhibition, Third Year Scholarship and Supplemental Examinations in Arts will begin on September 11th, 1905. (For time table, see p. 154).

Field work in Surveying will commence on August 21st, 1905, and the Summer School in Mining at the end of the Session.

Summer Classes. During the months of May and June, a series of SUMMER CLASSES will be conducted, intended mainly in the first instance, to meet the requirements of students in the first two years of their course. The subjects offered in the Faculty of Arts are English, Latin, Greek, Mathematics, Physics, Chemistry, Logic, French, German and Elementary animal Biology. A fee of eight dollars will be exigible for any one class and of four dollars for each additional class, except in the case of Physics and Chemistry for each of which the fee (including Laboratory work) shall be twenty-five dollars. Classes will also be conducted in the following subjects of the First Year in the Faculty of Applied Science, if a sufficient number of students apply: Descriptive Geometry, Freehand Drawing, Mathematics, Physics, Shopwork, and in Chemistry of the Second Year. The fee for each class in Applied Science will be learned on inquiry at the office of the Bursar.

During July, 1905, French Holiday courses will be conducted under the direction of Dr. H. Walter, from whom all information may be obtained.

A Summer School in Library Economy will be held during the month of June, 1905. Full information may be obtained from Mr. C. H. Gould, B.A., Librarian.

Board and Residence.

No residential accommodation has as yet been provided in the College for men students. Women students may board

* Lectures in Law will commence on Tuesday, September 12th.

and reside either in private houses or in the Royal Victoria College, which provides, in addition to separate lecture rooms, residental accommodation for the women students of the University (*See p.* 159).

Good board and lodgings can be obtained in private houses in the vicinity of the University buildings at a cost of from $17 to $25 per month; or, separately, board at $12 to $16 per month, rooms at $4 to $10 per month.

A list of suitable boarding and lodging houses, the sanitary conditions of which are required to be properly certified, is prepared annually, and may be obtained upon application to the Registrar of the University, or the Janitor of the Medical Building.

The erection of suitable University residential halls for men is contemplated in the near future.

In "the McGill Union," which will be opened about the commencement of the next Session, and which will contain a large dining hall and other catering accommodation, students can be supplied with meals and board at reasonable rates.

A description of this building, which has been erected for the purposes of relaxation and social intercourse of the students of the various Faculties, will be found on page 51.

Dormitory accomodation for about 60 students is provided in Strathcona Hall, the new McGill Y.M.C.A building, which has just been erected by a committeee of the Association. A detailed description of the building will be found on page 52. Full particulars concerning terms of residence, etc., may be obtained from the Secretary of the Association, 844 Sherbrooke St., Montreal, who will also make arrangements to have students who are strangers to the City met on arrival and helped to secure lodgings, if due notice is sent of the station and time at which they will arrive.

Exhibitions, Scholarships, Prizes, Etc.

An election to a Rhodes Scholarship for the Province of Quebec rests with McGill University in an order of rotation to be determined later. The Scholarship, which is tenable at the University of Oxford, is of the value of £300 a year for three years.

Full particulars regarding conditions &c., may be obtained on application to the Registrar.

Bursaries, Exhibitions, and Scholarships, particulars of which are given in the announcements of the several Faculties (*see post*), are offered for competition to students every year. In addition to a number of valuable exhibitions and scholarships open to Second and Third Year students, seventeen Exhibitions, ranging in value from $100 to $300 each, will be offered for competition to students entering the First Year in Arts, in June, 1905. For details of the examination see pp. 55-62.

Bursaries are also awarded to intending teachers who hold a Model School Diploma from the McGill Normal School, and who have satisfied the requirements for matriculation. For particulars see under "McGill Normal School."

Gold Medals, Honours, and Prizes are awarded in connection with advanced courses of study.

Classification of Students.

Except under special circumstances, no student under the age of sixteen is admitted to the First Year courses in Arts, Applied Science or Medicine, or under the age of seventeeen to the Second Year, and no student under the age of seventeen is admitted to the course in Law.

Students are classified as Graduate Students, Undergraduates, Conditioned Students and Partial Students.

Undergraduates are matriculated students who are pursuing a full undergraduate course of study leading to a degree.

In order to obtain undergraduate standing, a candidate must have passed the Matriculation Examination of the University or some other examination accepted in lieu thereof (see page 13), and have registered as a matriculated undergraduate.

Conditioned Students are those who, not having completed their matriculation examination, are pursuing a full undergraduate course of study leading to a degree, and are entitled to obtain undergraduate standing upon completing their matriculation; credit being given for their work as Conditioned Students (see page 13, Reg. 7).

Partial Students are those who, not belonging to one of the above classes of students, are pursuing a course of study in the

The Museum from the Campus.

University. Such students may, subject to the approval of the Professor, attend any class without previous examination.

(For special regulations in this connection in the Faculty of Arts, see page 53).

Partial Students who subsequently obtain undergraduate standing by passing the Matriculation Examination may, as Undergraduates, be exempted, at the discretion of the Faculty, from a particular course or courses of lectures which they may have attended as Partial Students and in which they have passed the sessional examinations.

Partial Students who intend to proceed to a degree will be expected to employ the greater part of their time in qualifying themselves to pass the Matriculation Examination. The classes provided for the instruction of Conditioned Students in Matriculation subjects will be available also for Partial Students who are so qualifying.

The several Faculties shall discourage Partial Students who are qualifying themselves for Matriculation, from attempting more work than they are able to undertake, consistently with the requirements of the Matriculation examination.

The Secretary of the Matriculation Board shall, after the September Examination, send to the Dean of each Faculty a report of the standing of those candidates who have failed in the Matriculation examination, for the guidance of the Faculties in connection with the admission of Partial Students to the First Year.

Women are admitted to the courses in Arts (on identical terms with men, but mainly in separate classes.)

All students are required to attend lectures at the University buildings in Montreal, or at one of the affiliated colleges.

MATRICULATION.

All matters regarding Matriculation are under the control of a Matriculation Board, which is constituted as follows:

(a) The Heads of all Departments which may include Matriculation subjects, *ex officio.*

(b) The Deans of the several Faculties and the Registrar of the Faculty of Medicine.

(c) Such other members of the teaching staff (or others), as may be appointed annually by Corporation, the Faculty of Arts being given the power, in any emergency, to make an appointment, *pro tempore*.

I. Matriculation Examination Regulations.

1. Matriculation Examinations (for entrance into all Faculties) are held only in June and September—in June at McGill college and (on application) at local centres; in September, at McGill College and affiliated colleges (Vancouver, B.C., Victoria, B.C., Stanstead, P.Q., and King's College, Windsor, N.S.) only.

All inquiries relating to the Examination should be addressed to the Registrar of the University.

For the convenience of candidates in Great Britain, who are not otherwise qualified for entrance, an examination will be held regularly in London each year, commencing about the middle of June. Full information regarding exact place of examination and dates, fee, etc., may be obtained from J., Stuart Horner, Esq., care of Messrs. John Birch & Co., 3 London Wall Buildings, London, E.C., who has kindly undertaken to act as the Honorary Representative of the University in England.

2. Every Candidate for examination is required to fill up an application form and return the same with the necessary fee one month before the examination. Blank forms may be obtained from the Registrar.

3. In order to obtain an examination at a local centre, any Headmaster or other person must before May 1st, submit to the Registrar the name of some suitable person, preferably a University graduate, who is willing to act as Deputy Examiner, i.e., receive the questions,hold the examinations and forward the answers to Montreal. The University will be responsible for no other local expenses than the payment of the deputy-examiners.

4. The Matriculation Examination is divided into two parts, Preliminary and Final. The subjects of the Preliminary Division may be taken at any Matriculation Examination, and those of the Final Division at the same or any subsequent examina-

tion, but (except as provided in regulations 6 and 7) a candidate must pass in the whole of either division at one time in order to secure exemption from further examination therein.

5. When two or more books or subjects are prescribed for one examination it is necessary to pass in each.

6. Candidates who fail in one or more subjects at the June examination, or who have taken part only of the examination, and present themselves in the *following* September, will not be required to take the subjects in which they passed in June.

This regulation applies to the Preliminary Examination as well as to the Final.

7. Candidates who at the September Examination fail in a small part only of the whole examination may, if their general standing is sufficiently high, be allowed to enter the First Year Undergraduate Course as Conditioned Students. Those who are conditioned in a language must attend a special tutorial class during their first session, for which a fee of $10 is exigible. Any student so conditioned, who fails to attend this class with regularity, will not be allowed to present himself for examination. The standing of a conditioned student will not as a rule be granted to any who have not presented themselves for examination in September, nor to those who have not shown sufficient knowledge of the subject or subjects in which they failed to justify the examiners in making a favorable recommendation. Such students can obtain full undergraduate standing by passing at a subsequent June or September Matriculation Examination in the subject or subjects in which they failed, and will not be permitted to enter the Second Year of their Course of Study until they have satisfied all Matriculation requirements.

8. A candidate in order to pass must obtain at least 40 per cent. of the total number of marks allowed for each subject.

9. In view of the precautions taken to prevent mistakes, no request for the re-examination of a paper shall be granted except on payment of a fee of one dollar. Should the appeal from the examiner's valuation be sustained the fee will be returned.

10. Certificates of having passed the following examinations will, if submitted to the Registrar, be accepted *pro tanto* in lieu of the Matriculation Examination, *i.e.,* in so far as the subjects

and standard are, to the satisfaction of the Board of Matriculation Examiners, the same as or equivalent to those required for the Matriculation Examination of the University; but candidates offering these certificates will be required to pass the Matriculation Examination in such of the required subjects, if any, as are not covered thereby:—

Province of Quebec.

The University School Preliminary Examination and the Official Examination of Grade I Academy.

The University School Final Examination.

The Examination for the Model School Diploma of the McGill Normal School, under certain conditions.

Province of Ontario.

The Junior and Senior Teachers' Certificate Examinations.

Junior and Senior Matriculation Examinations.

Province of New Brunswick.

The Examinations for Superior and Grammar School Licenses.

Province of Nova Scotia.

The Leaving Examinations, Grades XI. and XII.

Province of Prince Edward Island.

The Leaving Examination of Prince of Wales College.

The Examination for First Class Teachers' Licence.

Province of British Columbia.

The Junior, Intermediate and Senior Grade Examinations.

Newfoundland.

The Intermediate and Associate Grade Examinations.

Great Britain.

The Local Examinations of the leading universities, and the Leaving Examinations of the Scotch Education Department.

Applications for exemptions from the Matriculation Examination, based upon certificates of having passed examinations other than those above mentioned, will be considered as occasion may require by the Board of Matriculation Examiners. Every such application must be accompanied by certificates and full particulars, and should be addressed to the Registrar.

II. Matriculation Fees.

See page 32.

III. Subjects of Examination.

FACULTY OF ARTS.

PRELIMINARY DIVISION.

(See Regulation 4, Page 12.)

English Composition and Dictation.
English Grammar.
British History. (For 1905 only).
Arithmetic.

FINAL DIVISION.

For candidates intending to take the B.A. Course: —

1. **History and Geography.** (In and after 1906).
2. **English Literature.**
3. **Latin** *or* **Greek.**
4. One of the following:
   Greek *or* **Latin** (the one not already chosen), **French, German.**
5. **Algebra, Part I.**
6. **Geometry, Part I.**
7. One of the following:
   Physiography, Botany, Chemistry, Physics, a **Language** not already chosen.

For candidates intending to take the B.Sc. Course in Arts:—

1. **History and Geography.** (In and after 1906).
2. **English Literature.**
3. **French.**
4. **German.**
5. **Algebra, Part I.**
6. **Geometry, Part I.**
7. One of the following:
   Physiography, Botany, Chemistry, Physics, Latin, Greek.

Candidates who intend ultimately to proceed to the study of Medicine are reminded that for Medical Registration it is necessary to take Latin.

Nine Exhibitions, ranging in value from $100 to $200 each, will be awarded on the result of the Matriculation Examination in the subjects of the Final Division, in June next; five, each of the value of $150, on the result of an Examination on the subjects required for Matriculation, together with additional work; and three, of the value of $300 each, for an examination on special work.

For full particulars see pages 55-62.

FACULTY OF APPLIED SCIENCE.

PRELIMINARY DIVISION.

(*See Regulation 4, page 12*).

English Composition and Dictation.
English Grammar.
British History. (For 1905 onl).
Arithmetic.

FINAL DIVISION.

For all courses leading to the degree of B.Sc., in Applied Science.

1. History and Geography. (In and after 1906).
2. English Literature.
3. One of the following:
   French, German, Latin, Greek.
4. Algebra, Parts I. and II.
5. Geometry, Parts I. and II.
6. Trigonometry.
7. One of the following:
   Physiography, Botany, Chemistry, Physics, a Language not already chosen.

FINAL DIVISION.

For the course leading to the degree of B.Arch.

1. History and Geography. (In and after 1906).
2. English Literature.
3. French.
4. One of the following:
   Greek, Latin, German, Physiography, Botany, Chemistry or Physics.
5. Algebra, Part I.
6. Geometry, Part I.
7. Freehand and Geometrical Drawing.

In addition to those who qualify in whole or in part on certificates mentioned on p. 14, par. 10 students who have completed one or more years of the Arts Course in any recognized University, may enter this Faculty on passing an examination in the additional mathematics, if any, required for Matriculation in Applied Science.

French-speaking candidates for Matriculation in this Faculty will be allowed to take examinations in French equivalent to those required in English. (For particulars, see p. 21.)

Candidates competing for the Architectural Scholarship offered by the Province of Quebec Architects' Association, may substitute Architectural Design under head No. 7 of the above requirements. Further particulars will be given on application to the Secretary.

FACULTY OF MEDICINE.

PRELIMINARY DIVISION.

(*See Regulation 4, page 12*).

English Composition and Dictation.
English Grammar.
British History. (For 1905 only).
Arithmetic.

FINAL DIVISION.

1. **History and Geography.** (I and after 1906).
2. **English Literature.**
3. **Latin.**
4. **Algebra, Part I.**
5. **Geometry, Part I.**
6. **Chemistry.**
7. **Physics.**
8. One of the following:
   Greek, French, German.

In addition to the certificates mentioned on p. 14, par. 10, the following are accepted in lieu of the Matriculation Examination for entrance in Medicine, provided they cover Latin:—

The degree of Bachelor of Arts obtained from any recognized university.

A certificate of having passed the Examination of a Provincial Medical Council.

In the case of candidates from the United States, a certificate of having passed a State or University Examination fully equivalent to the Matriculation Examination required for entrance in this University.

The examination requirements for those who intend to practice medicine in any of the Provinces of Canada, or in Great Britain and Ireland and the British Colonies, will be found under Faculty of Medicine.

FACULTY OF LAW.

PRELIMINARY DIVISION.

(See Regulation 4, page 12).

English Composition and Dictation.
English Grammar.
British History. (For 1905 only).
Arithmetic.

FINAL DIVISION.

1. History and Geography. (In and after 1906).
2. English Literature.
3. Latin.
4. French.
5. Algebra, Part I.
6. Geometry, Part I.
7. One of the following:
   Physiography, Botany, Chemistry, Physics, Greek, German.

Candidates must reach a high standard in Latin and French.

In addition to those who qualify in whole or in part on certificates mentioned on page 14, par. 10, Bachelors of Arts, Science, or Letters of any Canadian or British University (see R.S.Q., 3503*a*) are admitted without examination.

At and after the commencement of the session 1906-07, no candidate domiciled in the Province of Quebec shall be admitted as an undergraduate in the Faculty of Law who shall not, in addition to other matriculation requirements, possess an adequate knowledge of French. Every candidate for admission as an undergraduate, whether exempt from the matriculation examination or not, shall be specially examined in this subject by an examiner appointed by Corporation, on the recommendation of the Matriculation Board, before being allowed to enter, and shall not be considered to possess an adequate knowledge unless he can speak the language with fair fluency and can translate with ease a passage of English into French.

Candidates who intend to practise law or to be admitted to the notarial profession in the Province of Quebec are referred to the Statutory requirements (see Faculty of Law). If they are not graduates they should pass the examination for admission to study required by the Council of the Bar or by the

Board of Notaries, as the case may be, before seeking to matriculate. In that case they will be matriculated without examination.

IV. Details of the Requirements in each Subject

PRELIMINARY DIVISION.

English Composition and Dictation. (One paper).

For Composition.—Candidates will write a short essay on a subject to be given at the time of the examination.

English Grammar.

Main facts in connection with the history of the language; Etymology and Syntax. A good knowledge of Parsing and Analysis is essential. West's English Grammar for Beginners is recommended as a text-book.

British History.

Candidates will be required to show a somewhat intimate acquaintance with the History from 1485 to the present time. While any text-book written for the upper forms of schools may be used in preparation for the examination, Gardiner's Outline of English History (Longmans) is recommended.

In 1906 this subject will be transferred from the Preliminary to the Final Division, and Geography will be added to the requirements. A somewhat particular knowledge of the whole History will be expected of all candidates, such as can be obtained by a study of Wrong's "History of the British Nation." The Geography required will be that relating to the History prescribed.

Arithmetic.

All the ordinary rules, including Square Root, and a knowledge of the Metric System.

FINAL DIVISION.

English Literature and Composition.

1905 and 1906. *Literature.*—Shakespere's Merchant of Venice; Selections from Tennyson, Part I (Rowe & Webb, Macmillan), or Nineteenth Century Prose (ed. Cunliffe), pages 1-126, with notes (Copp, Clark Co.).

Composition.—As in Sykes' Elementary Composition, with an essay on some subject connected with the works prescribed

in Literature. Frequent practice in composition will be essential, in order that candidates may be prepared to meet the requirements of the examination.

The work specified for the Junior Matriculation English of the Province of Ontario will be accepted.

Greek.

Texts.—(Translation and grammatical study) :—

1905 and 1906.—Xenophon, Anabasis I (as in White's Beginners' Greek Book, pp. 304-428), or Xenophon, Anabasis II.

Grammar, Composition and Translation at Sight.—The composition will consist of sentences and easy narrative based upon the prescribed texts.

The requirements for the Junior Matriculation Greek of the Province of Ontario will be accepted in place of the texts specified above.

At the September Examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

Latin.

Texts.—(Translation and grammatical study) :—

1905 and 1906—Cornelius Nepos, Lives of Themistocles and Aristides (Wilkinson, in Macmillan's Elementary Classics) ; Cæsar, De Bello Gallico, Bks. IV and V; Ovid, Stories from the Metamorphoses (as in Gleason's "A Term of Ovid," pages 54 to the end, American Book Company).

Grammar, Composition and Translation at Sight.—The composition will consist of sentences and easy narrative based upon the prescribed texts.

The requirements for the Junior Matriculation Latin of the Province of Ontario will be accepted in place of the texts specified above.

At the September Examination other texts in Latin equivalent to those specified may be accepted, if application be made to the Registrar at least a month before the day of the examination.

French.

Grammar.—Accidence and Syntax, including translation into French of simple English sentences to test the candidate's familiarity with elementary grammar. No candidate will be allowed to pass who fails in this part of the examination. Bertenshaw's French Grammar is recommended as containing the amount required under this head.

Translation at Sight from French into English. Translation into French of easy English passages.

French-speaking candidates for Matriculation in the Faculty of Applied Science will, if they offer French in place of English (see p. 16), be examined in the following:—

French Composition, Dictation, Grammar (Larousse, Grammaire Supérieure).

French Literature: — (Corneille, Le Cid; Racine, Andromaque.)

French History:—(A Rambaud, Histoire de la Civilisation Française.)

For special regulation re matriculation in Law, see page 18.

German.

German.—A thorough knowledge of German Accidence and of the more important rules of Syntax.

Translation.—Candidates must be able to translate into German with tolerable correctness exercises approximately equal in difficulty to those contained in the First Part of Van der Smissen's High School German Grammar, or in the First and Second Parts of the Joynes-Meissner German Grammar (Heath & Co.).

For 1906.—Candidates must be able to translate into German exercises approximately equal in difficulty to those contained in the Joynes-Meissner German Grammar (First Part, and Lessons 46, 47, 57, 58, 59 and 60, of the Third Part), or in the corresponding chapters of Van der Smissen's High School German Grammar.

Texts.—(Translation and grammatical study):—

1905 and 1906—Auf der Sonnenseite (Heath & Co.).
Storm, Immensee (Heath & Co.).

The requirements for the Junior Matriculation German of the Province of Ontario will be accepted in place of the texts specified above.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of examination.

Algebra, Part I.

Elementary rules, Involution, Evolution, Fractions, Indices; Surds, Simple and Quadratic Equations of one or more unknown quantities, as in Hall and Knight's Elementary Algebra to end of Surds (omitting portions marked with an asterisk), or in similar text-books.

Algebra, Part II.

The three Progressions, Ratio, Proportion, Variation, Permutations and Combinations, Binomial Theorem, Logarithms, Interest and Annuities, as in remainder of Hall and Knight's Elementary Algebra (omitting chaps. 40 to 43 inclusive), or in similar text-books.

Geometry, Part I.

Euclid's Elements, Books I, II, III, with easy deductions: or an equivalent.

Geometry, Part II.

Euclid's Elements, Books IV and VI, with definitions of Book V, and easy deductions; or an equivalent.

Trigonometry.

Measurement of angles, Trigonometrical ratios or functions of one angle, of two angles and of a multiple angle, as in Hamblin Smith's Trigonometry, pp. 1-105, or as in Lock's Elementary Trigonometry, Chaps. I-XII; or in similar text-books. In 1906, as in Lock's Elementary Trigonometry, Chaps. I to XII, Hall and Knight's Trigonometry, Chaps. I to IV and VII to XII, all inclusive; or as in similar text books.

Physiography.

The elements of the Science, as in Davis's Elementary Physical Geography, Tarr's First Book of Physical Geography, or other text-books covering the same ground.

Botany.

As in Groom's Elementary Botany.

Candidates will be given extra credit for Plant collections of a maximum of 25 species each. They will use Penhallow's Guide to the Collection of Plants and Blanks for Plant Descriptions.

The collections will be returned, if desired, at the expense of the school or individuals to whom they belong.

Any plant of the same family may be substituted for any one of those specified in Part II of Groom's Elementary Botany, according to the requirements of the locality.

Chemistry.

Elementary Inorganic Chemistry, comprising the preparation and properties of the chief non-metallic elements and their more important compounds, the laws of chemical action, combining weight, etc. The ground is simply and effectively covered by Remsen's "Elements of Chemistry," pp. 1 to 165 (Macmillan's Edition.)

Physics.

Properties of Matter; Elementary Mechanics of Solids and Fluids, including the Laws of Motion, Simple Machines, Work, Energy; Fluid Pressure and Specific Gravity; Thermometry, the effects and modes of transmission of Heat.

Text-book recommended—Gage's Introduction to Physical Science, 1902 edition (Ginn & Co.), chaps. I to V.

V. Dates of the Examinations.

The examinations in 1905 will commence on June 12th and on September 11th. Special arrangements may be made for the examination of candidates who are prevented by severe illness or domestic affliction from presenting themselves on the dates fixed.

The Time Table for the September examination will be as follows:—

MONDAY, September 11th.

Morning	9–10.30.—English Grammar
	10.30–11.—English Dictation.
	11–12.—English Composition.
Afternoon	2.30–4.—English Literature.
	4–5.30.—British History.

TUESDAY, September 12th.

Morning 9–11.—Latin Grammar and Composition.
11–12.30.—Arithmetic.
Afternoon 2.30–4.30.—Latin Books and Sight Translation.

WEDNESDAY, September 13th.

Morning 9–11.—French.
11–12.30.—Trigonometry.
Afternoon 2.30–4.30.—German.
4.30–6.—Chemistry and Botany.

THURSDAY, September 14th.

Morning 9–11.—Geometry, Part I.
11–12.30.—Physics and Physiography.
Afternoon 2.30–3.45.—Algebra, Part II.
3.45–5.—Geometry, Part II.

FRIDAY, September 15th.

Morning 9–11.—Algebra, Part I.
11–1.Greek Grammar and Composition.
Afternoon 3–5.—Greek Books and Sight Translation.

Admission to Second Year.

Admission to the Second Year is open, as a rule, only to undergraduates who have passed the First Year Sessional Examination in regular course, but in exceptional cases, to be dealt with by the Faculty in which they desire to register, candidates may be admitted directly to the Second Year without having passed through the curriculum of the First Year.

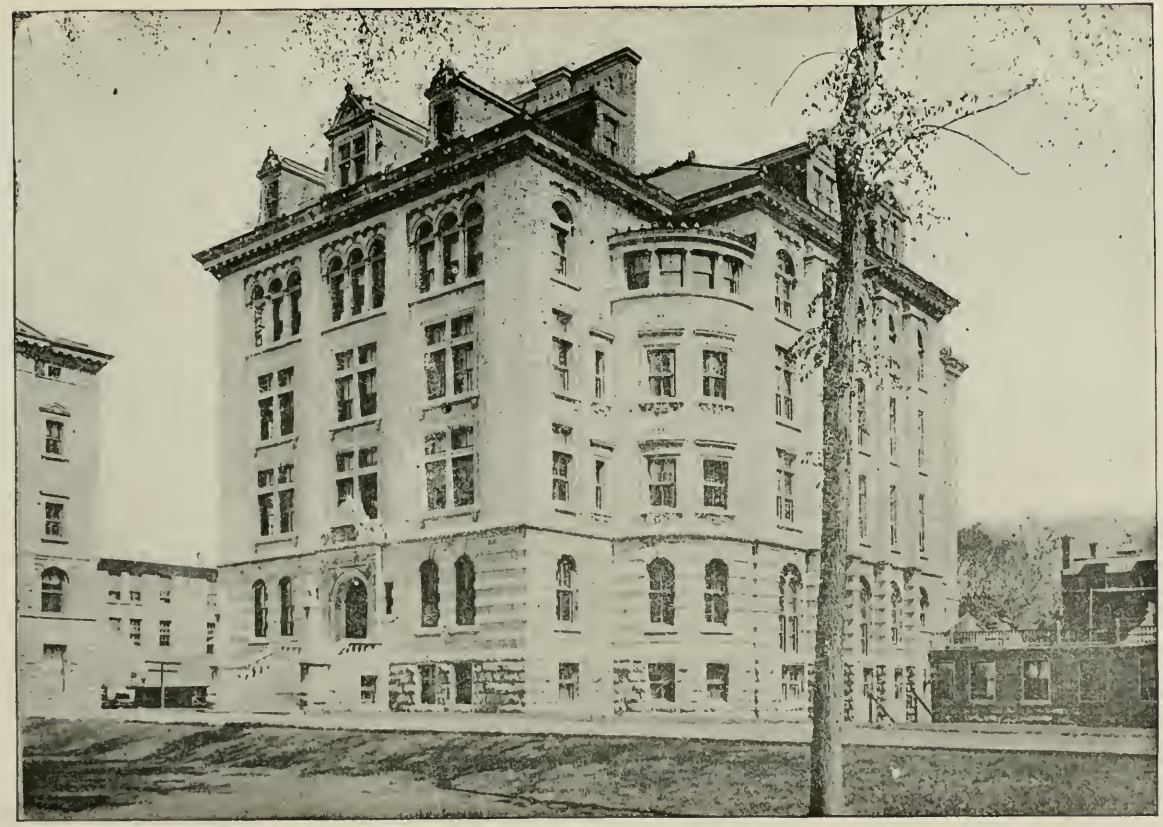
Students of other Universities Applying for Equivalent Standing.

Any student of another university wishing to be admitted to this University with equivalent standing, is requested to send with his application:—

1st.—A Calendar of the University in which he has studied, giving a full statement of the courses of study.

2nd.—A complete statement of the course he has followed.

3rd.—A certificate of the standing gained, and of conduct.



Macdonald Chemistry and Mining Building.

These will be submitted to the Faculty in which he desires to register.

The Faculty if otherwise satisfied, will decide what examination if any, or what conditions may be necessary before admitting the candidate.

DEGREES.

All theses for higher degrees must be sent to the Registrar of the University. No thesis will be received or examination granted until the fee for the degree has been paid.

In order to obtain the degrees of B.A., B.Sc., B.Arch., B.C.L., M.D., C.M., and M.D.S., students of this University are required to attend the lectures and to pass the examinations of the undergraduate courses

STATUTORY ENACTMENTS CONCERNING DEGREES.

For the Degree of B.A.

Students who shall have satisfactorily completed the regular course of study in Arts, shall have passed the prescribed examinations during the course, and also the special examinations for graduation, and shall have performed such exercises as may be prescribed to that end, shall be entitled to the Degree of Bachelor of Arts.

For the Degree of B.Sc.

Students who shall have satisfactorily completed the prescribed course of study in the Faculties of Arts or Applied Science for the Degree of Bachelor of Science, shall have passed the prescribed examinations during the course, and also the special examinations for graduation, and shall have performed such exercises as may be prescribed to that end, shall be entitled to the Degree of Bachelor of Science.

For the Degree of B. Arch.

Students who shall have satisfactorily completed the regular course of study in the Faculties of Arts and Applied Science for the Degree of Bachelor of Architecture, shall have passed the prescribed examinations during the course, and also

the special examinations for graduation, and shall have performed such exercises as may be prescribed to that end, shall be entitled to the Dgree of Bachelor of Architecture.

For the Degree of B.C.L.

Students who shall have satisfactorily completed the regular course of study in Law, shall have passed the prescribed examinations during the course and also the special examtions for graduation, shall be entitled to the Degree of Bachelor of Civil Law.

For the Degree of M.A.

Bachelors of Arts of this University, of at least one year's standing, who (*a*) shall have taken for one year a graduate course of study in Arts in the University, previously submitted to and approved by the Faculty, and (*b*) shall have passed an examination at the end of the course, and (*c*) shall have presented, if required, a satisfactory thesis, shall be entitled to the Degree of Master of Arts. Bachelors of Arts of at least two years' standing who shall have presented a satisfactory thesis and passed a special examination, shall be entitled to the Degree of Master of Arts.

The fee for the degree is $20; *in absentia*, $40. (In case of failure, the candidate may present himself in a subsequent year without further payment of fees.) The examination will be held in April in McGill College only. A candidate after fulfilling all the conditions ought to notify the Faculty of his desire to proceed to the degree at the next convocation.

Candidates who obtained the degree of B.A. before 1884 *may proceed to the degree of M.A. under the regulations in force previous to* 1884.

Lectures are open to Bachelors of Arts who are candidates for M.A., the sessional examinations corresponding to these lectures being reckoned as parts of the M.A. examination. The subjects are Greek, Latin, English, French, German, History, Mental and Moral Philosophy, Chemistry, Experimental Physics, Botany, Zoology, Geology and Mineralogy. Certificates of standing will be given.

For the Degree of M.Sc.

Bachelors of Arts or Bachelors of Science of at least one year's standing who shall have taken for one year a Graduate course of study in the Faculty of Arts or the Faculty of Applied Science of the University, previously submitted to and approved by the Faculty, shall have passed an examination at the end of the year, and shall, if required, have presented a satisfactory thesis; or Bachelors of Arts or Bachelors of Science of at least two years' standing who shall have presented a satisfactory thesis, and shall have passed a special examination for the degree, shall be entitled to the Degree of Master of Science.

The fee for the degree is $20; *in absentia,* $40.

For the Degree of M.D.

Students who shall have satisfactorily completed the regular course of study in Medicine, shall have passed the prescribed examinations during the course, and also the special examinations for graduation, shall be entitled to the Degree of Doctor of Medicine and Master of Surgery.

For the Degree of M.D.S.

Students who shall have satisfactorily completed the regular course of study in the Dental Department of the Faculty of Medicine, shall have passed the prescribed examinations during the course, and also the special examinations for graduation shall be entitled to the Degree of Master of Dental Surgery.

For the Degree of D.D.S.

Masters of Dental Surgery who have either presented at any time later than one year after graduation a satisfactory thesis, embodying original research, upon some branch of dental science; or have, at the completion of three years, passed satisfactorily an examination in advanced denistry, the scope of which shall be determined by the Faculty of Medicine, shall be entitled to the Degree of Doctor in Dental Science.

For the Degree of D.Litt.

Candidates for the Degree of Doctor of Literature must be Masters of Arts, of at least five years' standing, who shall have distinguished themselves by special research and learning in the domain of Literature or Philosophy. They are required to present a satisfactory thesis or published work.

The fee for the degree is $80.

For the Degree of D.Sc.

Candidates for the Degree of Doctor of Science must be Masters of Arts, or Masters of Science, or Doctors of Medicine, of at least five years' standing, who shall have distinguished themselves by special research and learning in the domain of Science. They are required to present a satisfactory thesis or published work.

The fee for the degree is $80.

For the Degree of D.C.L.

Candidates for the Degree of Doctor of Civil Law must be Bachelors of Civil Law of at least twelve years' standing. They are required to pass a special examination for the degree and to present a satisfactory thesis or published work on some subject selected or approved by the Faculty of Law. For details of the examination, etc., see under Faculty of Law.

The fee for the degree is $80.

For the Degree of LL.D.

Except as hereinafter mentioned, the Degree of Doctor of Laws is given only as an honorary degree.

Any person who matriculated and attended lectures in the Faculty of Arts before the 31st January, 1899, may proceed to the Degree of Doctor of Laws in course upon the following conditions:

Candidates for the Degree of LL.D., in course, must be Masters of Arts of at least twelve years' standing, and are required to prepare and submit to the Faculty of Arts, not less than three months before proceeding to the degree, twenty-five printed copies of a thesis on some Literary or Scientific

subject which has been *previously approved by the Faculty.* The thesis must exhibit such a degree of literary or scientific merit, and give evidence of such originality of thought or extent of research as shall, in the opinion of the Faculty, justify recommendation for the degree.

Candidates are also required to submit, with their thesis, a list of books treating of some one branch of Literature or of Science satisfactory to the Faculty, in which they are prepared to submit to examination, and in which they shall be examined, unless otherwise ordered by the Faculty.

The fee for the degree is $80.

ADMISSION "AD EUNDEM GRADUM."

The following are the regulations applicable to admission "ad eundem gradum":—

Extract from the Statutes, Chap. VIII.

"Graduates of other universities, desirous of admission to "the like degree in this University, may be so admitted by "the Corporation; due enquiry being first made as to their "moral character and sound learning, and opportunity given "to the several Faculties to make such representation in the "premises as they may see fit. Provided always, that, unless "by unanimous consent, such admission shall not be put to "vote until after three months' notice, and shall not be "ordered, if as many as five members of the Corporation shall vote against it."

Extract from the Regulations of the Corporation.

"In all cases in which anyone is proposed for any 'Ad "Eundem' degree, it shall be necessary for the member or "members of the Corporation making such proposal, to state "in writing therewith the grounds upon which the granting "of such degree is advocated, and when the case shall be re-"ferred to the Faculties, under Chap. VIII. of the Statutes, "copies of such proposal and grounds shall be transmitted to "the Faculties by the Secretary for their consideration."

Note. In considering applications under the above regulations, the Faculties will require as "grounds" the pursuit of a course of study or research in this University; association with the academic work of the University; or similar qualifications.

Admission "ad eundem gradum" is not granted merely as a titular distinction.

REGISTRATION AND PAYMENT OF FEES.

Registration.

1. Candidates entering on a course of study in the Faculties of Arts, Applied Science and Law, whether as undergraduates, conditioned students or partial students, are required to attend at the office of the University Registrar some time during the week preceding the first day of lectures, for the purpose of filling out in duplicate the usual form of registration, and of signing the following declaration in the Matricula or Register:—

"I hereby declare that I will faithfully observe the Statutes, Rules and Ordinances of this University of McGill College."

2. On the first day of lectures in the First Term, or on one of the three preceding days, all students in the Faculties of Arts and Applied Science who have not registered under Regulation 1, shall register in such place or places as may be announced by circular and by notices posted in the several buildings.

3. After registering, the student will be given a registration ticket, on presentation of which to the different professors and lecturers, whose classes he proposes to attend, his name will be entered on the class register. It will not be entered, nor will he be permitted to attend lectures on any other condition.

In the case of students whose standing cannot be determined at the time of registration, special tickets will be issued, which will give them the right of admission to classes until such time as their status is ascertained.

4. On the first day of lectures in the Second Term, or on one of the three preceding days, all undergraduates and conditioned students in the Faculties of Arts and Applied Science shall register in such place or places as may be announced by notice posted in the several buildings.

5. Undergraduates and conditioned Students who fail to register at the times specified above for each term shall be required to pay a special registration fee, which fee shall not be remitted in any case except by the decision of a joint standing committee of the Faculties of Arts and Applied Science. This fee shall be $3.00 when the student registers within 24 hours after the time appointed, and shall be $6.00 when the student registers more than 24 hours and less than 72 hours thereafter. A student who has not registered before the expiration of the 72 hours above mentioned, will not be permitted to register or receive credit for attendance at lectures without permission of the above named committee which shall also have power to decide the amount of the registration fee in such special cases.

Time of Payment of Fees.

1. Fees shall be paid in the office of the Bursar on or before October 1st. The registration ticket must be shown to the Bursar, in every case, before the fee is paid. After October 1st an additional fee of $2.00 will be exacted of all students in default.

2. Immediately after October 10th the Bursar shall send to each professor and lecturer a list of the registered students who have not paid their fees, on receipt of which the professor or lecturer shall strike their names from the register of attendance, and such students cannot be re-admitted to their classes except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

Students registering after October 10th shall pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 2.

FEES.

Matriculation fees must be sent to the University Registrar at the time of application for the examination. All other fees as well as all fines in the Faculties of Arts, Law, and Applied Science must be paid to the Bursar of the University; those in the Faculty of Medicine (with the exception of the Graduation fee) to the Registrar of that Faculty.

Matriculation Fees.

For the full Examination	$5 00
(In case of a Local Examination, where one candidate only is examined, the fee will be $10.)	
In case of candidates who do not complete the examination at one time, for the first examination.	5 00
For any subsequent examination	2 00
For examination of certificates, in respect of which candidates are exempted from the whole of the Matriculation Examination	1 00
For entrance into the Second Year	10 00

Candidates writing on matriculation papers with the view of qualifying as Partial Students in the Faculty of Arts, shall pay a fee of $1.00 per subject.

Certificates will, on application, be issued to successful candidates without additional fee. Duplicate certificates will not be granted unless satisfactory proof be given of the loss or destruction of the original. The fee for a duplicate certificate is $1.00.

Fees in the Faculty of Arts.

For Regulations re payment, see p. 31.

1. **Undergraduates and Conditioned Students.**—$61 per session.* This will include the fee for Laboratory work, Library, Gymnasium and Athletics, and Graduation. In the

* At the request of the students themselves, and by the authority of Corporation, an additional dollar will be exacted from all undergraduates and conditioned students (men) in the Faculty of Arts, for the support of the Literary and the Undergraduates' Society of that Faculty.

Third and Fourth years, it will cover the normal amount of practical instruction given in each subject having a Laboratory Course.

2. **Partial Students.**—(First and Second Years.)—$16 per session for one course or one half-course of lectures, including the use of the Library; $12 per session for each additional course; $8 per session for each additional half-course. In addition there will be a fee of $3 for Athletics.

3. **Partial Students.**—(Third and Fourth Years).—$22 per session for one course or one half-course of lectures, including the use of the Library; $20 per session for each additional course; $11 per session for each additional half-course. In addition there will be a fee of $3 for Athletics.

Graduates of the McGill Normal School who are actively engaged in teaching, are permitted to attend classes as Partial Students on payment of a fee of $10.00 for each full course.

Partial Students taking the full curriculum in any one year pay the same fees as Undergraduates in that year.

(The lectures and laboratory work, if any, in one subject in any of the four College years constitute a "Course," if occupying three hours per week, a "Half-Course" if occupying less than three hours per week.)

4. **Graduates in Arts** of this University and graduates of other universities attending full courses in affiliated Theological Colleges are allowed, on payment of one-half of the usual fees, to attend all lectures, except those for which a special fee is exigible. For Bachelors of Arts proceeding to M.A. by taking for one year a graduate course of study, the fee is $40. This will cover Laboratory work.

5. **Special Fees.**—

Supplemental Examination in any subject or any part of a subject, when taken at the regular date fixed by the Faculty	2 00
Supplemental Examination, when granted at any other time than the regular date fixed by the Faculty.....	5 00

All fees for Supplemental Examinations must be paid to the Bursar, and the receipts shown to the Dean before the examination.

Fee for the Degree of B.A. or B.Sc. (Arts) conferred in absentia (except when the candidate has been specially exempted by the Faculty) 20 00

6. **Caution Money.**—Every student is required to deposit with the Bursar the sum of $5, as caution money, to cover damage done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

7. **Summer Classes.**—A fee of eight dollars will be exigible for any one class, and of four dollars for each additional class, except in the case of Physics and Chemistry for each of which (including Laboratory work) the fee shall be twenty-five dollars.

All fines are applied to the purchase of books for the Library.

Fees in the Faculty of Applied Science.

For Regulations re payment, see p. 31).

Annual fee for the undergraduate course in Architecture, No. 1..... ....$100.00
Annual fee for all other undergraduate courses..... 175.00

(Undergraduates and conditioned students who were in attendance at the University during the Session of 1902-1903, or previously, will be allowed to complete the four years of their regular course on payment of $156.00 per annum.)

Students taking the Double Course in the Faculties of Arts and Applied Science shall receive a rebate on the Faculty of Applied Science fees of an amount equal to the fees paid for equivalent subjects in the Faculty of Arts.

The fees for Partial Students are:—$10.00 for Library, Athletics and Caution money; and a fee at the rate of $6.00 per annum for each hour of instruction per week, but the maximum fee shall in no case exceed $175.00.

In addition to the fees specified above every student is required to pay a fee of $1.00 *for the Undergraduates' Society in the Faculty of Applied Science, to be collected with the tuition fees at the office of the Bursar.*

Deposit for caution money for undergraduates and conditioned students.... .... 5.00
Fee for Graduate Course..... .... 150.00

(Graduates of this Faculty will be required to pay only one-half of this amount.)

Fee for the Degree of B.Sc. conferred in absentia (except when the candidate has been specially exempted by the Faculty)..... .... 20.00

Supplemental Examinations.—The fee is $2.00 for each examination period (morning or afternoon). It must be paid to the Bursar of the University not later than the day before the examinations, and receipt for the same shown to the Professor in charge before the examination papers are distributed.

The fee for a special Supplemental Examination is $5.00.

Fees in the Faculty of Medicine.

All fees are payable in advance to the Registrar, and, except by permission of the Faculty, will not be received later than October 20th.

It is strongly recommended to parents or guardians of students that the fees be transmitted direct by cheque or P.O. Order to the Registrar, who will furnish official receipts.

The total Faculty Fees for the whole medical course of four full sessions, including clinics, laboratory work, dissecting material and reagents, will be *five hundred dollars,* payable in four annual instalments of $125 each.

Partial students will be admitted to one or more courses on payment of special fees.

An annual University fee of three dollars is charged all students for the maintenance of college grounds and athletics.

Students repeating the course of study of any Academic session are not required to pay full fees. A fee of twenty-five dollars will be charged, which will include Hospitals, dissecting material, chemical reagents, laboratory fees, etc. The same fee, plus hospital fee of $10.00, is charged students entering from other colleges who have already paid fees elsewhere for the courses taken.

An *ad eundem gradum* fee of $10 will be charged students entering from another university in the second, third or fourth year of the course.

Every student is required to deposit at the beginning of each session the sum of $10.00 as caution money, to cover breakage in the different laboratories, etc. This amount, less deductions (if any), will be returned at the close of the Session.

For the convenience of the undergraduates, the Hospital fees are payable in the Registrar's office; ten dollars to be paid at the beginning of each of the last three sessions, viz., the second, third and fourth years. This will entitle each undergraduate to perpetual tickets for both the Montreal General and Royal Victoria Hospitals.

The fee for the Maternity Hospital for twelve months is $12, payable at the Hospital during the Spring Term of the Third Year.

The fee for the Degree of Doctor of Medicine and Master of Surgery shall be thirty dollars, to be paid by the successful candidate to the University Bursar immediately after examination.

When the Degree is conferred in absentia an additional fee of twenty dollars will be required, unless the candidate has been specially exempted by the Faculty.

Summary of Fees.

First Year.

Class fees	$125.00
Caution money (deposit)	10.00
Athletics	3.00
	$138.00

Second Year.

Class fees	$125.00
Caution money (deposit)	10.00
Hospitals	10.00
Athletics	3.00
	$148.00

Third Year.

Class fees	$125.00
Caution money (deposit)	10.00
Hospitals	10.00
Maternity Hospital	12.00
Athletics	3.00
	$160.00

Fourth Year.

Class fees	$125.00
Caution money (deposit)	10.00
Hospitals	10.00
Athletics	3.00
Fee for Degree of M.D., C.M	30.00
	$178.00

Graduate Courses.

The fee for the regular Graduate Course will vary in proportion to the number of subjects taken. A registration fee of $5.00 will also be exacted from each graduate student.

For the Course in Public Health, and Diploma ... $50.00

Fees in the Faculty of Law.

For Regulations re payment, see p. 31.

Registration Fee	$ 5.00
Sessional Fee (including Athletics) for Undergraduates matriculating in and after September, 1903	60.00
Sessional Fee for Undergraduates previously enrolled	53.00
Athletics Fee, payable by Partial Students	3.00
Graduation Fee	12.50

When the Degree is conferred in absentia an additional fee of twenty dollars will be required, unless the candidate has been specially exempted by the Faculty.

Sessional Fee by Partial Students:—for the course of Roman Law, $20; for each of the courses on Successions, Criminal Law, Commercial Law, Obligations and Civil Procedure, $15; and for each one of the shorter courses, $10.00.

Caution Money.—Every student is required to deposit with the Bursar the sum of $5, as caution money, to cover damage done to furniture, loss of books, etc. This amount, less deductions (if any), will be returned at the close of the session.

Fees for Higher Degrees.

For the Degree of M.A.	$20.00
" " " (*In absentia*)	40.00
(In case of failure on examination or the rejection of the thesis the candidate may present himself in a subsequent year without further payment of fee.)	
For the Degree of M.Sc.	$20.00
" " " (*In absentia*)	40.00
" " D.Sc.	80.00
" " D.Litt.	80.00
" " D.C.L.	80.00
" " LL.D. (in course)	80.00

No fee shall be charged for the Degree of LL.D., granted "honoris causa."

The fee for any Higher Degree must be sent with the thesis to the Registrar of the University. This is a condition essential to the reception of the application. The Registrar will then forward the thesis to the Dean of the Faculty. If no thesis be required, the fees must be paid before the examination.

Miscellaneous Fees.

Elocution (optional)	$5.00
Library (optional for students in Law and Medicine)	4.00
Gymnasium (optional for undergraduates in Law and Medicine, and also for Partial Students in all Faculties)	2.50
Certificate of Standing, as to year of Course	1.00
Certificate of Standing, accompanied by a statement of classification in the several subjects of examination.	2.00

All applications for certificates must be addressed to the Registrar of the University, accompanied by the required fee.

No certificates are given for attendance on lectures unless the corresponding examinations have been passed.

SPECIAL REGULATIONS

Academic Dress.

Professors, lecturers and students are required to wear academic dress at lectures, except in those cases in which a dispensation shall have been granted by the Faculty.

Undergraduates shall wear a plain black stuff gown, not falling below the knee, with round sleeve cut above elbow.

Bachelor of Arts.—Black stuff gown, falling below knee, with full sleeve cut to elbow and terminating in a point (similar to that of the Cambridge B.A.); hood, black silk, lined with pale blue silk and edged with white fur.

Bachelor of Science.—The same gown as Bachelors of Arts; hood, black silk, lined with yellow silk and edged with white fur.

Bachelor of Civil Law.—The same gown as Bachelors of Arts; hood, black silk, lined with French grey silk and edged with white fur.

Master of Arts.—Black gown of stuff or silk falling below knee, with long sleeve with semi-circular cut at the bottom (similar to that of the Cambridge M.A.); hood, black silk, lined with pale blue silk.

Master of Science.—The same gown as Masters of Arts; hood, black silk, lined with yellow silk.

Doctor of Medicine.—The same gown as Masters of Arts; hood, scarlet cloth, lined with dark blue silk.

Doctor of Laws.—The same gown as Masters of Arts; hood, scarlet cloth, lined with white silk.

Doctor of Literature.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale blue silk.

Doctor of Science.—The same gown as Masters of Arts; hood, scarlet cloth, lined with yellow silk.

Doctor of Civil Law.—The same gown as Masters of Arts; hood, scarlet cloth, lined with French grey silk.

Doctors of Laws, Doctors of Civil Law, Doctors of Literature, and Doctors of Science shall be entitled to wear for full dress a robe of scarlet cloth (similar in pattern to that of the Cambridge LL.D.) faced with silk of the same colour as the lining of their respective hoods.

All hoods shall be in pattern similar to that of the Masters of Arts of Cambridge University.

Undergraduates and graduates shall wear the ordinary black trencher with black tassel, but Doctors of Laws, Doctors of Civil Law, Doctors of Literature, and Doctors of Science shall wear for full dress a black velvet hat with gold cord, similar to that worn by Doctors of Laws of Cambridge University.

Samples of the colours of the linings of all hoods shall be kept for inspection in the office of the Registrar.

Attendance and Conduct.

1. Punctual attendance on all his classes is required of each student.

2. A record shall be kept by each Professor or Lecturer, in which the presence or absence of students shall be carefully noted. The record shall be submitted to the Faculty at all their ordinary meetings during the Session.

3. Credit for attendance on any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class-room or laboratory. In the case last mentioned, the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline shall, after admonition by the Professor, be reported to the Dean of the Faculty. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend from classes.

4. Absence from lectures can only be excused by necessity or duty, of which proof must be given, when called for, to the Faculty. The number of times of absence, from necessity or duty, that shall disqualify from the keeping of a session shall in each case be determined by the Faculty.

For special regulations re attendance in the Faculties of Arts and Applied Science, see pp. 83 and —

5. Any student found guilty of dishonest practices at an examination shall be liable to expulsion from the University, or to be suspended for a term of years.

6. While in college, or going to or from it, students are expected to conduct themselves in the same orderly manner as in the class-rooms. Smoking is prohibited in the College buildings, except in such rooms, if any, as may be set apart for that purpose. Any Professor observing improper conduct in the College buildings or grounds may admonish the student, and, if necessary, report him to the Dean. Without, as well as within the walls of the College, every student is required to maintain a good moral character.

7. When students are brought before the Faculty under the above rules, the Faculty may reprimand, report to parents or guardians, impose fines, disqualify from competing for prizes or honors, suspend from classes, or report to the Corporation for expulsion.

8. Any student damaging the furniture or buildings will be required to bear the expense of repairing or making good the same, and will, in addition, be subject to such other penalty as the Faculty may see fit to inflict. If individual responsibility for damage cannot be traced, a *pro rata* assessment may be made on all the students more directly concerned.

9. All cases of discipline involving the interests of more than one Faculty, or of the University in general, shall be immediately reported to the Principal, or, in his absence, to the Vice-Principal.

10. Petitions from the students to any University body on any subject can, in general, be taken into consideration only at the regular meetings appointed in the Calendar.

Conduct of Examinations.

1. The supervision of the examinations of the University is entrusted largely to officers specially appointed from year to year in sufficient numbers for the purpose. An attendant is present in the Examination Hall throughout each examination.

2. Writing paper for the examinations is provided in the form of books, with covers in special colours. Each book contains a statement of the duties of candidates, and to each is attached a small envelope containing a card or slip for the name of the candidate.

3. Each colour has a number, and only one colour is employed at a given examination. A certain scheme of colours is arranged beforehand for the whole period of the examination.

4. The seating of the students is arranged in advance, and is posted at the entrance of the Hall fifteen minutes before the commencement of the examination.

5. The Faculty, or a Committee of the Faculty concerned, will arrange for at least one examiner, and such other pari examiners as are deemed necessary, to be present in the Hall for each examination; and will also arrange the scheme of seating and books to be used.

6. All examiners are expected to attend strictly to the supervision of the examinations while they are in the Hall.

7. They shall instruct each candidate to write the number of his table on the outside of his book; to write his name

plainly upon the card provided in the envelope on the book; to replace it and seal the envelope.

After this has been done, the examination papers are distributed. Any candidate entering late will be required to sign his card and close the envelope before receiving the examination paper.

The examiners shall also call the attention of the candidates to the rules printed upon the envelope.

8. During the course of the examinations the examiner shall verify the position of each candidate in the examination hall according to a plan.

9. For the convenience of candidates, the examiners may announce the time when half of the period allowed for the examination has expired; and also at thirty minutes and five minutes before the close.

10. Before beginning to write on the examination, candidates should write their names plainly on the slip provided in the envelope, and enclose it, fastening the envelope, and write the number of their desk or table plainly on the cover of the examination book.

11. No candidate shall be permitted to enter the examination room after the expiry of one-half hour, or leave it before the expiry of one-half hour, from the commencement of the examination. Any candidate leaving the examination room after the issue of the examination papers in any subject, shall not be permitted to return during the course of that examination.

12. Candidates guilty of any of the following or similar dishonest practices shall be immediately dismissed from the examination, and shall be liable to permanent disqualification for membership in McGill University:—

A. Making use of any books, papers, or memoranda, other than those provided by the examiners.

B. Speaking or communicating with other candidates under any circumstances whatever.

C. Exposing written papers to the view of other candidates.

The plea of accident or forgetfulness shall not be received.

13. Candidates shall write their answers on the right hand pages of the regulation answer book provided for the pur-

pose by the University, entering on the margin nothing but the number or letter of the question they are about to answer. The left-hand page may be used for rough drafts or for scribbling purposes. No other paper than the regulation answer book above mentioned shall be used by the candidates, and no pages may be removed from the books.

14. Candidates are not permitted to leave their places. Should they desire any thing, they may signify it by standing up.

15. When the examiner announces that the examination is over, all candidates must leave the hall. On leaving the hall, the examination books must be deposited by the candidates as directed by the examiners.

College Grounds and Athletics.

All matters relating to the management of the College Grounds and of Out-Door Athletics and Sports are under the control of a Committee consisting of:—

One Governor.
The Principal.
One member of the Faculty of Arts.
One member of the Faculty of Applied Science.
One member of the Faculty of Law.
One member of the Faculty of Medicine.
The Medical Director of Physical Training.
One graduate.
The President of the Athletic Association.
And one undergraduate representative from each of the affiliated clubs.

The several members of the Committee are elected annually by their respective bodies. The undergraduate members of the Committee are entitled to vote only on matters relating to Athletics.

The following extracts are made from the rules and regulations of the Committee, for the guidance of Members of the University and the several Athletic Clubs and Associations which are from time to time permitted to use the grounds:

The University and McTavish Street gates shall be closed between 6 p.m. and 7 a.m. on week days and the whole day on Sunday, during the summer.

The Sherbrooke Street gates shall also be closed between 10 p.m. and 6 a.m., during the summer.

Such persons as are entitled to use the Grounds shall be provided with tickets renewable each year.

Those entitled to tickets are the Members of the University and prominent Benefactors, and the families of Governors and Professors.

The several Clubs may be permitted to issue special tickets, entitling the holders to admission to the Grounds for the purpose of viewing matches, or for other special occasions of public interest.

All students desirous of taking part in football matches, or otherwise engaging in violent athletic contests, must pass a medical examination, to be held under the direction of the Medical Director of Physical Training. A complete record of all such examinations shall be kept by the Director or some other officer appointed to this duty. The Managers and Captains of Clubs or other responsible executive officers are required to insist upon the strict observance of the rule in regard to Medical Examination, and all the rules and regulations of the Committee which concern them.

All Clubs must submit their Regulations, Rules, and By-Laws, and any changes in the same, for the approval of the Committee. They must make application for the use of such portions of the Grounds as they require, and for any special privileges.

Clubs must not engage in matches with outside clubs except with the approval of the Committee.

The Athletic Association must submit its programme for each year for the approval of the Committee.

All students of the University are required to pay a fee of three dollars ($3.00) for the use of the Grounds. The amount so paid is handed over to the Committee, and is by it expended in the interest of College Athletics and in the permanent improvement of the portions of the grounds used for Athletics.

The amount derived as Grounds and Athletic Fees from the students of the Royal Victoria College shall be placed at the disposal of the Committee in charge of the grounds, for expenditure in the interests of women-students.

The annual sports of the University shall be held on the second Friday of October in each year. The day shall be observed as a holiday.

The McGill University Athletic Association: — All matters connected with athletics at the University are under the supervision of this Association, which in turn is responsible to the "Grounds and Athletics Committee." The executive of the Athletic Association consists of the presidents of the various clubs of the Association, nine in number.

The Track Club has its special field in regulating and encouraging "Track and Field Athletics." This year (1905) it is proposed to hold "Inter-class Sports" on the 30th of September, the annual University sports on the 13th of October, and the "Intercollegiate Meet" will take place on the 20th of the same month. McGill now holds the Intercollegiate Championship in athletics.

The Rugby Football Club, one of the strongest of the clubs, is represented by a senior and intermediate team in the Intercollegiate Union, and a Junior team in the Q.R.F.U. In addition to these championship matches, a series of inter-class matches will be played for the "Wood Cup," which was won last year by the class of '07.

The Skating and Hockey Club last year had one of the best seasons in its history, the senior team winning the Intercollegiate Championship of Canada, and the intermediate team the championship of the Western Division of the Intermediate C.A.H.L.. As in football, a series of inter-class games are played for the "Capper Trophy," which was won last year by Medicine, '08. Two rinks on the Campus are also under the management of this club, one for skating the other for hockey.

The *Association Football Club*, the *Basket-Ball Club*, the *Boxing Club*, the *Cricket Club*, the *Harriers' Club* and the *Tennis* Club are the remaining six clubs of the Association. Most of them conduct inter-class matches, and have a senior team, which represents the University in outside matches.

Gymnasia.

(1) *The University Gymnasium.*

Medical Director of Physical Training: — F. W. Harvey, B.A., M.D.

Instructor:—W. L. Jacomb.

The classes, which are open to men students of all Faculties, will meet at the University Gymnasium at hours to suit, as far

as possible, the convenience of students, and to be announced at the commencement of the session.

Special attention is given to the application of exercise in treating cases of weakness or deformity, which should be reported to the Medical Director before the regular class work is undertaken.

The Wicksteed Silver and Bronze Medals for Physical Culture (the gift of Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the Gymnasium for two sessions; the silver medal to the former, the bronze medal to the later.

The award of these medals is made by Judges, appointed by the Corporation of the University.

Every competitor for the silver medal is required to lodge with the Judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean or Registrar of the Faculty to which he belongs, and the medal will not be awarded to any student who may fail in his examination for the degree.

(2) *The Royal Victoria College Gymnasium.*

Instructor:—Elizabeth R. Fotheringham.

Classes for Women-Students are conducted in Swedish gymnasium of the Royal Victoria College, at hours arranged to suit the convenience of the students. All students are required to pass a satisfactory medical examination before engaging in basket ball, or other exercises in the gymnasium.

In the Session 1905-1906 students of the First Year will be required to take regular physical exercise in the gymnasium, amounting to two periods per week.

The Strathcona prizes of $20 and $10 are open for competition to students of the Second and Fourth Years, under the following regulations:—

(1) Competitors must be able to show an attendance of 65% on the gymnastic classes throughout the session.

(2) No prize shall be awarded unless the judges consider the work up to a standard of 75%.

(3) The prize shall be awarded if one candidate reach the required standard, even if there be no competition.

(4) The prize shall not be awarded should the winner fail in obtaining her full academic standing.

(5) A programme from which the exercises are to be chosen will be posted in the Gymnasium at the beginning of each session (not later than October 15th of each year) and the actual programme of the competition will be posted not later than January 15th.

(6) Judges for these competitions shall be appointed yearly by the Corporation, on recommendation of the Medical Director of Physical Training.

UNIVERSITY BUILDINGS.

The Centre Building.

This building, the first and oldest building of McGill College, contains the lecture-rooms of the Faculty of Arts and the Botanical Laboratories in the centre. The East Wing contains the newly equipped Zoological Laboratories, the offices of the Administration, and the lecture-rooms of the Faculty of Law. The West Wing comprises the Molson Convocation and Examination Hall and the Corporation Meeting-room.

The Botanical Laboratories are described in detail on p. 149, the Zoological Laboratories on p. 150.

The Macdonald Engineering Building.

The Engineering Building, erected, equipped and endowed by Sir William C. Macdonald, represents, in architectural effect, a severe treatment of the Italian renaissance. Besides numerous lecture-rooms, students' rooms, a departmental library, and a large technical museum, which holds the Reuleaux collection of Kinematic models—believed to be the most complete in America—the building contains large and thoroughly equipped electrical and magnetic laboratories; dynamo rooms; lighting station; accumulator room; laboratories of Mathematics, Dynamics, Mechanics, Geodesy, Modelling, Testing, and Thermodynamics; workshops (in the annex erected under the bequest of the late Thomas Workman) for Carpentry, Wood-turning, and Pattern-making; Machine shops; Smithy; Foundry, etc.

The whole of one floor is given up to Drawing-rooms, and the Museum of the building contains a large collection of casts illustrative of the historical development of the various styles of architecture and of casts of architectural and figure sculpture.

A detailed description of the laboratories and workshops and their equipment will be found elsewhere.

Macdonald Chemistry and Mining Building.

Admirable facilities are afforded in the Macdonald Chemistry and Mining Building for study and research in the departments of Chemistry, Metallurgy, Mining, Mineralogy and Geology. The building was erected, equipped and endowed by Sir William C. Macdonald. It is spacious, admirably lighted, heated by hot water and ventilated by electric fans. In addition to the large Lecture Theatre, which seats about 250 students, there are four lecture rooms for smaller classes, and a number of offices.

There are three large general Chemical Laboratories, large laboratories for Ore-dressing and Metallurgy and a number of smaller rooms for special purposes, including research work. Among the special laboratories may be mentioned those for Organic Chemistry, Physical Chemistry, Electrolytic Analysis, Gas Analysis, Iron and Steel Analysis, Fire Assaying, Water Analysis, Determinative Mineralogy, Petrography, Photography, etc. The reference library contains about 1,300 volumes.

A detailed description of the laboratories and their equipment is given on pp. 148 and 149.

The Macdonald Physics Building.

The Macdonald Physical Laboratory, another of Sir William C. Macdonald's gifts to the University, contains five storeys, each of 8,000 square feet area. Besides a lecture theatre and its apparatus rooms, the Building includes an elementary laboratory nearly 60 feet square; large special laboratories arranged for higher work by advanced students in Heat and Electricity; a range of rooms for optical work and photography; separate rooms for private thesis work by students; and two large laboratories arranged for research, provided with solid piers and the usual standard instruments. There are also a lecture room, with apparatus room attached, for Mathematical Physics, a special physical library, and convenient workshops. The equipment is on a corresponding scale, and comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by the students in practical work; (3) the most recent types of all important instruments for exact measurement, to be used in connection with special work and research.

A detailed description of the laboratories and their equipment is given on pp. 146-148.

Medical Buildings.

The present main building of the Faculty of Medicine was erected in 1873. In 1885, and again in 1893, large additions and alterations were made to the buildings. These again, however, have proved inadequate, and a thorough reconstruction and enlargement of the buildings has lately been completed. The present buildings comprise several large lecture theatres; a large reading room, managed by the students themselves; a fine medical library; dissecting rooms; and a large number of completely equipped laboratories for Physiology, Histology, Pharmacology, Chemistry, Hygiene, Bacteriology, and Pathology, in addition to numerous museums, preparation rooms, and offices. Clinical teaching is conducted in the theatres, wards, out-patient rooms, and laboratories

Macdonald Physics Building.

of the Montreal General Hospital, the Royal Victoria Hospital, and the Montreal Maternity Hospital.

A detailed description of the laboratories and museums is given under Faculty of Medicine.

The Royal Victoria College for Women.

This residential college for the Women Students of McGill University, erected and endowed by Lord Strathcona and Mount Royal, is situated on Sherbrooke Street, in close proximity to the University buildings and laboratories. The Professors and Lecturers of the University are thereby enabled to give their services in the conduct of the College classes.

Full particulars of the College, terms of residence, etc., are given on pages 157-160.

The University Library.

Librarian:—Charles H. Gould, B.A.

The general library is housed in the fine Romanesque building erected in 1893 by the late Mr. Peter Redpath.

Dignified and convenient as originally designed, it has recently been improved and greatly enlarged by the liberality of Mrs. Peter Redpath. It now possesses ample accommodation for three hundred and fifty readers, of whom fully one hundred can be provided for in the seminary rooms and special studies.

The main architectural feature of the interior is the general reading room, 110 feet long, 44 feet wide, 34 feet high. It will seat one hundred and fifty readers and has open shelves for about 4,000 volumes.

The book stack, four and five storeys high, of approved type, excellently lighted and ventilated, with four reading bays on each storey, has a working capacity of 250,000 volumes, besides special provision for the storage of maps and of newspapers.

Library regulations, with a description of the collections are given elsewhere.

The Peter Redpath Museum.

Senior Curator:—Prof. B. J. Harrington, M.A., LL.D.

This building was erected in 1882 by the liberal benefactor whose name it bears. It occupies a commanding position at the upper end of the campus, and besides its central hall and other rooms devoted to the collections, contains a large lecture-theatre, class-rooms, and work-rooms.

The general arrangement of the collections is as follows:

1. The Botanical Room on the ground floor contains the Herbarium, consisting of 50,000 specimens of Canadian and exotic plants and collections illustrating structural and economic botany.

2. On the first floor is a room over the entrance hall, in which are cases containing archæological and ethnological objects, including collections from the Queen Charlotte Islands, from Egypt, and from South Equatorial West Africa.

3. This room opens into the great Museum Hall, on each side of which are alcoves with upright and table cases containing the collections in Palaeontology, arranged primarily to illustrate the successive geological systems, and subordinately to this, in the order of zoological and botanical classication, so as to enable the student to see the general order of life in successive periods, and to trace any particular group through its geological history.

4. At the extreme end of the Hall are placed the collections of minerals and rocks, arranged in such manner as to facilitate their systematic study. In the centre of the Hall are economic collections and large casts and models.

5. In the upper storey or gallery of the great Hall are placed the zoological collections; the invertebrate animals in table cases in regular series, beginning with the lower forms; the vertebrate animals in upright cases, in similar order. The Philip Carpenter Collection of shells is especially noteworthy for its arrangement and completeness.

Papers or memoirs relating to certain type specimens in the collections can be obtained from the Museum Assistant. Classes of pupils from schools can be admitted on certain days under regulations, which may be learned from the Professors or from the Registrar of the University.

Observatory.

Latitude, N. 45° 30′ 17″. Longitude, 4h. 54m. 18s. 67.

Height above sea level, 187 feet.

Superintendent:—C. H. McLeod, Ma.E.

The Observatory, in which courses of instruction are given in the use of meteorological instruments and in astronomical work, is situated at the head of the University campus.

Meteorological observations.—Records of temperature, atmospheric pressure, wind velocity and direction, and sunshine are obtained by self-recording instruments. Check observations are made at 7.40 a.m., 3 p.m., and 7.40 p.m. on standard instruments.

The principal instruments employed are two standard mercurial barometers; one Richard barograph; one Richard thermograph; one Callendar thermograph; one Kew standard thermometer; two Pastorelli thermometers; one maximum thermometer; one minimum thermometer; one set of six self-recording thermometers, with controlling clock, battery, etc.; two anemometers; one wind vane; one anemograph with battery, etc.; one sunshine recorder; one rainband spectroscope and one rain gauge.

The Anemometer and Vane are on the summit of Mount Royal, at a point about three-quarters of a mile north-west of the Observatory. They are 57 feet above the surface of the ground and 810 feet above sea level.

Soil temperatures are observed, in co-operation with the Physical Laboratory, by means of platinum thermometers at depths ranging from one inch to nine feet.

The astronomical equipment consists of: The Blackman Telescope (6¼ in.); a photoheliograph (4½ in.); a 3¼ in. transit with striding level, etc.; a prismatic (8cm.) transit instrument, also arranged as a zenith telescope; a 2 in. transit in the prime vertical; two collimating telescopes; one sidereal clock; one mean time clock; one sidereal chronometer; one mean time chronometer; one chronograph; batteries, telegraph lines, and sundry minor instruments.

Observations for clock errors are made on nearly every clear night. Time exchanges are regularly made with the Toronto observatory. Time signals are distributed throughout the city by means of the noon time-ball, continuous clock signals, and the fire-alarm bells; and to the country through the telegraph lines.

The longitude of the Observatory was determined in 1892 by direct telegraph connection with Greenwich, with exchange of observers and instruments. The position is believed to be the most accurately determined in America.

The McGill Union.

The McGill Union stands on a convenient site at the Corner of Sherbrooke and Victoria Streets, within two minutes' walk of the College Gates. The building measures 93 feet by 71 feet, and consists of three storeys and a basement. It is being erected and furnished by Sir William Macdonald at a cost of over $135,000. The building externally is an example of a severe type of English classic, executed in the local grey stone.

The main floor, entered from Sherbrooke Street, is devoted to dining and luncheon rooms. The dining table (table d'hôte and à la carte) will accommodate 120 at a time, and the luncheon room 80. It is, therefore, possible to lunch at least 500 students between the hours of 12 noon and 2 p.m.

On the Second Floor, billiard rooms, a news hall, a reading-room and library, a study and a lounging gallery (88 feet by 21 feet) are provided.

The Great Hall, suitable for debates, public meetings, &c., is situated on the top storey. The hall measures 88 feet by 45 feet, and has a total seating capacity of 400. Adjoining the Hall is the Music Room, and at the top of the building four bedrooms will be found set aside for graduate members re-visiting the City.

The basement is divided between the kitchen and offices, the caretaker's quarters, baths, locker rooms, laboratories and an exercise room 24 feet by 38 feet for boxing and fencing.

Membership in the Union is open to all students of the University without restriction. The Draft Constitution now in preparation, and containing all necessary information, will be published and circulated at an early date.

Strathcona Hall.

This building—the home of the Young Men's Christian Association of McGill University—will be ready for occupation by the opening of the Session 1905-1906. The property is vested in a committee of the Association, and is not, therefore, a University building.

Strathcona Hall is 55 feet wide by 110 feet deep, and is five storeys in height. The three upper storeys are arranged to afford residential accommodation for about 60 men. The rooms on these floors are of various sizes. They are, for the most part, single, but some of them are arranged en suite. Each floor is amply provided with baths, etc., of the most modern type.

The Second Floor contains a large reading room, a large game room, and five small rooms to be arranged as studies or for the use of various clubs and societies. The apartments of the Secretary of the Association are also on this floor.

The Secretary's Office is on the Ground Floor, which also contains sitting rooms, cloak rooms and a hall, capable of seating 350 persons.

The Basement, which is high and well lighted, has a bowling alley, as well as a suite of large rooms which may be used for dining purposes.

The building is throughout of the most modern type of construction, and is absolutely fire-proof.

Arts Building.

Faculty of Arts.

THE FIRST DAY OF LECTURES, SESSION 1905-1906, WILL BE WEDNESDAY, SEPTEMBER 20TH.

I. REGULATIONS FOR ENTRANCE.

(1) For those intending to proceed to a degree.

See pp. 12-23.

(2) For Partial Students.

Those who desire to enter any of the classes of the First Year as Partial Students must, if under the age of eighteen years, first present to the Dean certificates of having taken a satisfactory course of school instruction. In order to obtain admission to the classes in French, intending students must have passed the University Matriculation Examination, or an equivalent examination, in that subject.

II. REGISTRATION AND FEES.

See pp. 30-33.

III. SCHOLARSHIPS AND EXHIBITIONS.*

GENERAL REGULATIONS.

1. A Scholarship is ordinarily tenable for *two* years; an Exhibition for *one* year.

2. Scholarships are open for competition to students who have passed the University Intermediate Examination, provided that not more than three sessions have elapsed since their matriculation †; and also to candidates who have obtained what the Faculty may deem equivalent standing in some other University, provided that application be made before the end of the Session preceding the examination. For details of the examination, see pp. 65-67.

3. Exhibitions are assigned to the First and Second Years.

* In the Session 1905-1906 the Scholarship and Second Year Exhibition Examinations will begin on Mouday, September 11th.

† Double course students (Arts and Applied Science or Arts and Medicine) are not eligible for these Scholarships.

First Year Exhibitions are open for competition to candidates for entrance into the First Year. The examination is held in June. For details, see pp. 55-62.

Second Year Exhibitions are open for competition to students who have passed the First Year Sessional Examinations, provided that not more than two sessions have elapsed since their Matriculation; and also to candidates for entrance into the Second Year. The examination is held at the beginning of every session, in September. For details, see pp. 62-65.

4. The Second Year Exhibition Examination will, for candidates who have not previously entered the University, be regarded as a Matriculation Examination, *pro tanto.*

5. No student can hold more than one Exhibition or Scholarship at the same time.

6. Exhibitions and Scholarships will not necessarily be awarded to the candidates who have obtained the highest marks. An adequate standard of merit will be required.

7. If in any College Year there be not a sufficient number of candidates showing adequate merit, any one or more of the Exhibitions or Scholarships offered for competition may be given to more deserving candidates in another year.

8. A successful candidate must, in order to retain his Scholarship or Exhibition, proceed regularly with his College Course to the satisfaction of the Faculty.

9. The annual income of the Scholarships or Exhibitions will be paid in four instalments, viz.:—In October, December, February and April, about the 20th day of each month.

10. For the Session 1905-1906 thirty Scholarships and Exhibitions are offered, including the following:—

The Jane Redpath Exhibition, founded by Mrs. Redpath, of Terrace Bank, Montreal:—value, about $90 yearly, open to both men and women.*

Two Sir William Dawson Exhibitions, given by the New York Graduates' Society:—value, one $62, and the other $60 yearly. (The latter of these may be awarded to a student in another Faculty.)

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*Resolutions are now in force by which all Exhibitions and Scholarships have been thrown open without restriction of sex, "except in cases where the deeds of gift or the ascertained wishes of the donor expressly preclude such a course; it being understood that in the event of the establishment of any large number of Exhibitions and Scholarships specially appropriated to either of the sexes by the terms of the foundation, the Board of Governors may again restrict some of those now existing in favour of the other sex."

Ten Macdonald Scholarships and Exhibitions, founded by Sir W. C. Macdonald, Montreal:—value $125 to $150 each, yearly.

The Charles Alexander Scholarship (for men students), founded by Charles Alexander, Esq., Montreal, for the encouragement of the study of Classics and other subjects:—value $90 yearly.

The Major H. Mills Scholarship, founded by bequest of the late Major Hiram Mills:—value $100 yearly.

The Barbara Scott Scholarship, founded by the late Miss Barbara Scott, Montreal, for the encouragement of the study of the Classical languages and literature:—value $100 to $120 yearly.

The Mackenzie Scholarship for Economics and Political Science, founded in memory of the late Hon. Alexander Mackenzie:—value $150 yearly.

Two Exhibitions in the Royal Victoria College, open to women only:—annual value $100 and $200 respectively.

One Royal Victoria College Scholarship, for women:—value $150 yearly.

Research Scholarship in Chemistry.

It is proposed to offer in September, 1905, a Research Scholarship in Chemistry, on the endowment of the late Dr. T. Sterry Hunt, to graduate students in the Faculties of Arts and Applied Science. (For particulars apply to the Professor of Chemistry.)

FIRST YEAR EXHIBITIONS.

Faculty of Arts.

Exhibitions First Year.

The following seventeen Exhibitions are offered for competition in June, 1905, to candidates for admission to the First Year:

Three C (Advanced), each of $300.
For particulars see pp. 60-62.

(Not transferable to other divisions below or other years.)

Five B (Higher), each of $150.
For particulars see pp. 56-59.

(Any or all of these may be raised to $200, if the answering is sufficiently good, and if there be other Exhibitions unawarded.)

Five A (Ordinary Matriculation, B.A. course), viz., two of $125 each; three of $100 each.

Two A (Ordinary Matriculation, B.Sc. course) of $100 each.

Two R. V. C. Exhibitions for Ordinary Matriculation, open to women only, and conditional on residence in the Royal Victoria College, viz., one of $200, and one of $100.

The examination for First Year Exhibitions will be held each year in connection with the Matriculation Examination in June, and will commence in 1905 on June 12th.

These Exhibitions are open to men and women on equal terms, unless the contrary is stated.

No candidate can hold two Exhibitions at the same time.

Blank forms of application, to be obtained from the Registrar of the University, must be filled out and returned before the 1st May, 1905.

In his application the candidate will specify the degree (B.A. or B.Sc.) to which he intends to proceed. The tenure of an Exhibition is conditional on the pursuit of the corresponding curriculum (B.A. or B.Sc.) in the First Year.

A. EXHIBITIONS.

The A (Ordinary Matriculation) Exhibitions will be awarded on the results of the Matriculation Examination only, whether for B.A. or B.Sc. The marks taken in the subjects of the Preliminary Division of the Examination, viz., English Grammar, Composition, Dictation, Arithmetic and British History, will not be taken into account in the competition, and candidates who have previously passed in those subjects will not be required to repeat the examination.

(For subjects and details of requirements in each see pp. 15 and 19-23.

B. EXHIBITIONS.

The B (Higher) Exhibitions will be awarded on the results of an examination in the subjects required for Matriculation, together with additional work in any *three* of the following;

provided, however, that the Ordinary Matriculation papers in the three chosen have also been taken:—

English.
Latin.
Greek.
French.
German.
Mathematics, Part II.

A candidate, not successful, may nevertheless receive an A. Exhibition, but in determining this, the marks for the additional work will not be taken into account.

The details of the additional work in the above subjects are as follows:—

English.

Grammar.—An advanced knowledge of this subject will be required, and, in addition, some acquaintance with the historical development of English as illustrated in common and important words. The candidate is recommended to read Mason's or West's Elements of English Grammar, and expected to supplement Mason or West by using Morris's Historical Outlines of English Accidence (Macmillan & Co.) as a book of reference.

Literature, 1905.—Milton, L'Allegro and other short poems, ed. Bell (Macmillan & Co.); Macaulay, Essays on Byron, Warren Hastings, Clive.

1906 and 1907.—Poems of the Romantic Revival (Copp, Clark Co.), pp. 83-200, with Introduction and Notes; Macaulay, Essays on Byron, Warren Hastings, Clive.

Composition.—The candidate will be required to write an essay on some subject connected with the examination.

Provided two months' notice be given, candidates may substitute in any year an equivalent amount from the works prescribed for the Senior Matriculation Examination of the Province of Ontario, Grade XII of the Province of Nova Scotia, or the Senior Leaving Examination of the Prince of Wales College, P.E.I.

Latin.

Grammar; Translation at Sight; Prose Composition.

Text-Books. — Sonnenschein's *or* Allen and Greenough's

Latin Grammar; Arnold's Latin Prose Composition by Bradley, *or* Collar's Latin Composition, Parts III and IV.

Translation from the following prescribed books:—

1905.—Horace, Odes III.

1906.—Virgil, Aeneid, Book II; Cicero, Orations against Catiline I and II.

Provided two months' notice be given, candidates may substitute in any year an equivalent amount from the works prescribed for the Senior Matriculation Examination of the Province of Ontario, Grade XII of the Province of Nova Scotia, or the Senior Leaving Examination of the Prince of Wales College, P.E.I.

Greek.

Grammar; Translation at Sight; Prose Composition.

TEXT-BOOKS.—Sonnenschein's *or* Rutherford's Greek Grammar, *or* Burnet's Greek Rudiments, *or* White's First Greek Book; Abbott's Arnold's Greek Prose Composition.

Translation from the following prescribed books:—

1905.—Homer, Odyssey VII; Euripides, Hecuba (Sidgwick's Selections).

1906.—Homer, Iliad VI, and Lucian, Charon.

Provided two months' notice be given, candidates may substitute in any year an equivalent amount from the works prescribed for the Senior Matriculation Examination of the Province of Ontario, Grade XII of the Province of Nova Scotia, or the Senior Leaving Examination of the Prince of Wales College, P.E.I.

In both Latin and Greek, candidates who do not offer the books prescribed above will have the option of an additional paper in Composition and Translation at Sight.

French.

(*a*) Grammar, including Syntax; (*b*) Translation at sight of French into English; (*c*) Translation at sight of easy English prose passages into French; (*d*) Translation from the following texts:—

1905 and 1906.—Augier, Le Gendre de M. Poirier (Heath & Co.); DeVigny, La Canne de Jonc (Heath & Co.); Sand, La Mare au Diable (Ginn & Co.).

Provided two months' notice be given, candidates may substitute in any year an equivalent amount from the works prescribed for the Senior Matriculation Examination of the Province of Ontario, Grade XII of the Province of Nova Scotia, or the Senior Leaving Examination of the Prince of Wales College, P.E.I.

German.

(*a*) Grammar.—Accidence and Syntax; (*b*) Translation at sight from German into English; (*c*) Translation at sight into German of an easy passage of English prose; (*d*) Translation and grammatical study of the following texts:—

1905.—Schiller, Maria Stuart (Heath & Co.); Freytag, Die Journalisten (Heath & Co.); Keller, Kleider machen Leute (Heath & Co.).

1906.—Gutzkow, Zopf und Schwert (Holt); Heine, Harzreise (Ginn); Keller, Kleider machen Leute (Heath).

Provided two months' notice be given, candidates may substitute in any year an equivalent amount from the works prescribed for the Senior Matriculation Examination of the Province of Ontario, Grade XII of the Province of Nova Scotia, or the Senior Leaving Examination of the Prince of Wales College, P.E.I.

Mathematics, Part II.

Geometry.—Euclid's Elements, Books IV and VI, with definitions of Book V, and easy deductions.

Algebra.—The three Progressions, Ratio, Proportion, Variation, Permutations and Combinations, Binomial Theorem, Logarithms, Interest and Annuities, as in Hall & Knight's Elementary Algebra, omitting Chapters 40-43, or in similar text-books.

Trigonometry.—Measurement of Angles, Trigonometrical ratios or functions of one angle, of two angles and of a multiple angle, as in Hamblin Smith, pp. 1-105, or as in Lock's Elementary Trigonometry, Chapters I-XII, or in similar text-books.

C. EXHIBITIONS.

Examination in Special Courses.

In awarding the C (Advanced) Exhibitions, the marks for ordinary matriculation will not be taken into account. A pass in the subjects chosen will, however, count towards matriculation, and in order to complete his matriculation, a candidate will take the ordinary papers in the remaining subjects required.

Candidates who have previously taken the matriculation examination in this University, or who matriculate on certificates, will not be required to take the ordinary papers.

A candidate, not successful, may nevertheless receive a B or an A Exhibition if he has fulfilled the conditions for them given above. The special papers set for C will, in this case, be regarded as papers both for B and A.

In the awarding of these Exhibitions, marked excellence in any subject will be taken into special account, but a satisfactory standard will be required in all the subjects offered.

One of these Exhibitions is open only to candidates from Newfoundland.

Of the subjects in the following list, candidates are required to select three. No credit will be given for work in a fourth subject.

English (including History).
Mathematics.
Latin.
Greek.
French.
German.

The details of the requirements in each subject are as follows:—

English and History.

1905. *Literature.*—Milton, L'Allegro, and other poems, ed. Bell (Macmillan & Co.); Macaulay, Essays on Byron, Warren Hastings and Clive; Coleridge, Ancient Mariner, ed. Bates (Longmans); Wordsworth, Selections, ed. Webb (Macmillan & Co.); Shakspere, Merchant of Venice, As You Like It, Julius Cæsar, all three plays edited by Deighton (Macmillan & Co.).

History.—Green's Short History of the English People.

Composition.—An essay on some subject connected with the works specified.

1906 and 1907.—*Literature.* Nineteenth Century Literature (Cunliffe and Cameron, Copp Clark Co.), the whole, with Notes; Macaulay, Essays on Byron, Warren Hastings and Clive; Shakspere, As You Like It, edited by Deighton (Macmillan & Co.).

History.—G. M. Trevelyan's England under the Stuarts (Methuen).

Composition.—An essay on some subject connected with the works specified.

Mathematics.

Geometry.—Euclid's Elements, Books I, II, III, IV, VI, with definitions of Book V, and problems.

A special paper will be set in problems. Candidates are recommended to study the theorems and examples in Hall & Stevens' edition.

Algebra.—Elementary Rules, Involution, Evolution, Fractions, Indices, Surds, Simple and Quadratic Equations of one or more unknown quantities, the three Progressions, Ratio, Proportion, Variation, Permutations and Combinations, Binomial Theorem, Logarithms, Interest and Annuities, as in Hall & Knight's Elementary Algebra, omitting Chapters 40 to 43.

Trigonometry.—To the end of the Solution of Triangles.

Latin.

Higher Grammar, Higher Prose Composition and Translation at Sight. Passages for translation from the following books:—

1905.—Virgil, Aeneid I-VI; Horace, Odes III; Cicero, Orations against Catiline.

1906.—Virgil, Aeneid I-II; Horace, Odes I-II; Cicero, Orations against Catiline.

Greek.

Higher Grammar, Higher Prose Composition and Translation at Sight. Passages for translation from the following books:—

1905.—Homer, Odyssey I-VII; Euripides, Hecuba and Alcestis.

1906.—Homer, Iliad VI and Odyssey XXI: Xenophon, Anabasis I: Lysias, Contra Eratosthenem.

French.

Higher Grammar, Higher Prose Composition and Translation at Sight. Passages for translation from the following texts:—

1905 and 1906.—Augier, Le Gendre de M. Poirier (Heath & Co.); DeVigny, La Canne de Jonc (Heath & Co.); Sand, La Mare au Diable (Ginn & Co.); Thiery, Récits des Temps Mérovingiens (Pitt Press); Mme de Stäel, Le Directoire (Pitt Press).

German.

Higher Grammar, Higher Prose Composition and Translation at Sight. Passages for translation from the following texts:—

1905.—Auf der Sonnenseite (Heath & Co.); Storm, Immensee (Heath & Co.); Schiller, Maria Stuart (Heath & Co.): Freytag, Die Journalisten (Heath & Co.): Keller, Kleider machen Leute (Heath & Co.); Lessing, Minna von Barnhelm.

1906.—For Maria Stuart and Die Journalisten substitute: Gutzkow, Zopf und Schwert (Holt) and Heine, Harzreise (Ginn).

SECOND YEAR EXHIBITIONS.

Exhibitions Second Year.

The following Exhibitions are offered for competition to students entering the Second year, in September, 1905:—

Three of $150, open to both colleges.

Three of $75, open to both colleges.

The subjects of examination are divided into two groups as follows:—

Group I.—Greek, Latin, French, German, English.

Group II.—Mathematics, Physics.

Candidates are required to offer two major subjects and one minor subject. The two major subjects must be selected from the same group, the minor subject from either group, the examination in the major subject being more extensive than that in the same subject presented as a minor subject. Two exhibitions of $150 each and two of $75 each are offered to candidates taking their major subjects from Group I, and one exhibition of $150 and one of $75 to candidates taking their major subjects from Group II.

The above exhibitions are open to all undergraduates in arts, whether they are taking the B.A. or the B.Sc. course.

Every Candidate is required to notify the Registrar, before the 1st of July, of his intention to proceed to the examination. Forms of notification may be obtained on application.

Details of the Requirements in each Subject.

Greek.

(*As a Major Subject.*)

I. (*a*) Lucian, Charon and Somnium (Heitland, Pitt Press).
(*b*) Cebetis Tabula (Jerram, Clarendon Press).
(*c*) Euripides, Medea (Headlam, Pitt Press).

II. Composition and Translation at Sight:—North and Hillard's Greek Prose Composition (Rivingtons.)

III. History:—Morey's Outlines of Greek History (American Book Company).

(*As a Minor Subject*).

The same as above, omitting I *c*. and III.

Latin.

(*As a Major Subject*).

I. (*a*) Virgil, Georgics I & IV (Page, Macmilian).
(*b*) Cicero, Brakenbury's Selections, Part II (Clarendon Press).
(*c*) Sallust, Catiline (Summers, Pitt Press).

II. Composition and Translation at Sight:—North and Hillard's Latin Prose Composition (Rivingtons).

III. History:—How and Leigh's History of Rome, Chaps. XVII-XLIV (from the First Punic War to the death of Sulla).

(*As a Minor Subject*).

The same as above, omitting I *c* and III.

French.

(*As a Major Subject*).

(*a*) Grammar; (*b*) Translation at sight of an English passage into French; (*c*) French Composition on a prescribed

subject; (*d*) a critical study of the following texts, tested by questions in the French language to be answered in French:—

For 1905 and 1906.—Corneille, Cinna (Holt); Molière, Les Femmes Savantes (Heath); Daudet, Le Petit Chose (Heath); Renan, Souvenirs d'Enfance et de Jeunesse (Heath).

(*As a Minor Subject.*)

The same as above, omitting Corneille, Cinna.

German.

(*As a Major Subject.*)

(*a*) Grammar; (*b*) Translation at sight from German into English, and from English into German; (*c*) the lives of Lessing and Schiller and a critical study of the following texts:—

For 1905 and 1906.—Lessing, Minna von Barnhelm (Ginn); Schiller, Die Piccolomini (Pitt Press); Dahn, Der Kampf um Rom (Heath).

(*As a Minor Subject.*)

The same as above, omitting Schiller, Die Piccolomini.

English.

(*As a Major Subject.*)

Shakspere, Julius Cæsar (Ed. Deighton, Macmillan); Milton, Comus (Ed. Bell, Macmillan); Johnson, Lives of Dryden and Pope (Ed. Milnes, Clarendon Press Series).

History.—Church, Middle Ages.

(*As a Minor Subject.*)

The same as above, omitting Comus and Lives of Dryden and Pope.

Mathematics.

(*As a Major Subject.*)

Plane Geometry.—Ordinary and advanced section courses of the First Year.

Algebra.—Selected course from Chaps. I-XXXII of Hall and Knight's Higher algebra.

Theory of Equations.—Selected course from Burnside and Panton.

Plane Trigonometry.—As in the Ordinary and advanced section courses of the First Year.

(*As a Minor Subject.*)

The Mathematics of the First Year Ordinary Course.

Physics.

As in Carhart and Chute.

THIRD YEAR SCHOLARSHIPS.

Scholarships. Third Year.

The following six scholarships, of the annual value of $150 each, will be open for competition in September, 1905:—

One for English and another language.

One for Latin or Greek and another language* (English excepted).

One for French or German and another language* (English excepted).

Two for Mathematics and Physics.

One for Biology and Psychology.†

Every Candidate is required to notify the Registrar before the 1st of July of his intention to proceed to the examination. Forms of notification may be obtained on application.

In the event of no candidate of sufficient merit presenting himself, the scholarship assigned to any group of subjects may, at the discretion of the Faculty, be awarded in another group, whether a scholarship has been already assigned to that group or not.

Of the two Third Year Scholarships assigned to Mathematics and Physics, one is open to women only, the other to men only. Should, however, no candidate be eligible for the scholarship open to men only, it may be awarded to a woman.

In the award of Third Year Scholarships, the Second Year standing of candidates, in the subjects selected, will be taken into account.

A scholarship shall ordinarily be continued in the fourth year, but only on condition that the work of the third year has proved satisfactory.

Mackenzie Scholarship.—This scholarship will be awarded in 1905-6 on the result of the Third Year's work, to a student reading for Honours in History and Economics, Course B.

* The language not chosen in the first instance may be taken as the second language.

† In September, 1906, the scholarship will be awarded for Chemistry and Physics.

(see p. 128). It may be renewed for a second year should a suitable course of post-graduate work be offered. The holder will be required to continue his work in the Honour course specified above. The value of the scholarship is $150 per annum. It cannot be held concurrently with any other.

In September, 1906, the scholarship will be awarded to a student entering the above-named Honour course. The subjects of examination will be Economics and History.

Details of the Requirements in each Subject.

Greek.

Andocides, de Mysteriis (Hickie, Macmillan); Sophocles, Electra (Jebb, Rivingtons).

Prose Composition and Translation at Sight.

Latin.

Horace, Epistles, Book I (Wilkins, Macmillan); Cicero, Select Orations (King, Clarendon Press); Virgil, Aeneid, Book VI, Sidgwick (Pitt Press).

Prose Composition and Translation at Sight.

Ancient History.

Text-books.—Bury, History of Greece, Chaps. X-XI (Macmillan); How and Leigh, History of Rome from Ch. XXXIII (inclusive) to the end (Longmans).

English and History.

Literature. Shakspere, Tempest, ed. Deighton (Macmillan); Milton, Paradise Lost, Books I and II, ed. Macmillan (Macmillan); Burke, On Conciliation with America (Ed. Cook, Longmans); Arnold, Essays in Criticism, Second Series (Macmillan's Colonial Library). *History.*—Robinson, Introduction to the History of Western Europe (Ginn & Co.). *Composition.*—The candidate will be required to write an essay on some subject connected with the literature or history prescribed. High marks will be given for this subject. A paper will also be set on the work of the Second Year.

Hebrew.

The prophet Amos: Introduction, translation and commentary; translation of English into Hebrew; paradigms of Hebrew verbs.

French.

(*a*) Composition; (*b*) Translation at sight from French into English; (*c*) Questions on the subject matter of the following texts, the lives of their authors and the periods they represent:—

For 1905.—Molière, Tartuffe (Heath); Racine, Iphigénie (Am. Book Co.); Vigny, Cinq Mars (Heath); Musset, Selections (Ginn).

For 1906.—Same as above, substituting V. Hugo, Notre-Dame de Paris (Ginn) for Vigny, Cinq Mars.

The entire examination will be held in the French language.

German.

(*a*) Composition; (*b*) Translation at sight from German into English; (*c*) Questions on the subject matter of the following texts, the lives of their authors and the periods they represent:—

For 1905 and 1906. — Lessing, Emilia Galotti (Holt); Goethe, Dichtung und Wahrheit (Heath); Schiller, Gustav Adolf in Deutschland (Am. Book Co.); Immermann, Der Oberhof (Pitt Press).

Mathematics.

Differential and Integral Calculus. — Lamb's Infinitesimal Calculus.

Analytic Geometry.—C. Smith's Conic Sections.

Higher Trigonometry.—Lock's Higher Trigonometry.

Spherical Trigonometry.—McLellan and Preston, Spherical Trigonometry, Part I.

Algebra. — Determinants as in Burnside and Panton's Theory of Equations.

Physics.

Electricity and Magnetism.—S. P. Thompson.

Biology.

Coulter, J. M., Plant Relations; Campbell, D. H. Evolution of Plants; a review of the Plant Biology of the Second Year; Huxley, Elementary Lessons in Physiology; Verworn, General Physiology. A paper will also be set on the work done during the previous year.

Psychology.

James, Psychology, Briefer Course, pp. 1-277, omitting Chaps. 7, 14, 15.

IV. REGULATIONS FOR DEGREES IN ARTS.

Regulations for the Degree of B.A.

After passing the First Year Matriculation Examination, an Undergraduate, in order to obtain the Degree of B.A. or B.Sc., is required to attend regularly the appointed courses of lectures for four years, and to pass the required Examinations in each year. He cannot take more than the number of subjects specified for each year without the special permission of the Faculty, nor can he proceed with his course unless he passes each examination in its assigned order. In case of failure to pass any of these examinations, permission to recover standing by passing Supplemental Examinations must be obtained from the Faculty. The conditions under which such permission is granted are stated on pp. 81 and 82. Undergraduates are arranged in Years, from First to Fourth, according to their academic standing.

1. Ordinary Course for the Degree of B.A.

N.B.—The Arabic numerals refer to the numbering of the courses on pp. 91, *et seqq.; for example, Greek,* 2, *refers to the second course given in the Department of Classics, p.* 93.

First Year.

First Year.

Greek, 1, *or* Latin, 1.
English, 1A, 1B, and History, 1.
Mathematics, 1.
Latin, 1, *or* Greek, 1, *or* French, 1, 2, *or* German, 2, *or* Spanish.
Physics, 2.

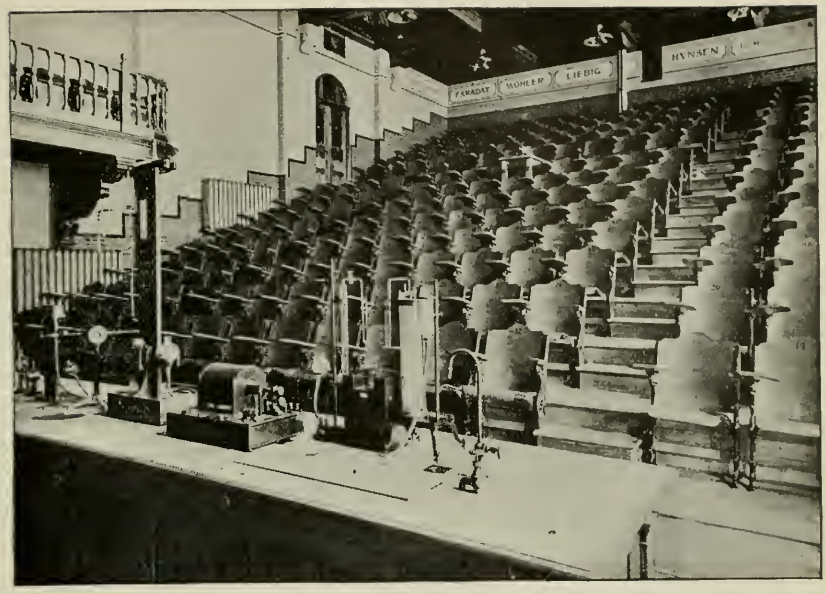
French cannot be taken as a qualifying option in the First Year, except by students who have passed the Matriculation Examination in this subject.

An additional Language may be taken as an extra subject in the first two years, if application be made to, and permission obtained from, the Faculty at the beginning of the Session. Credit will be given for it on application.

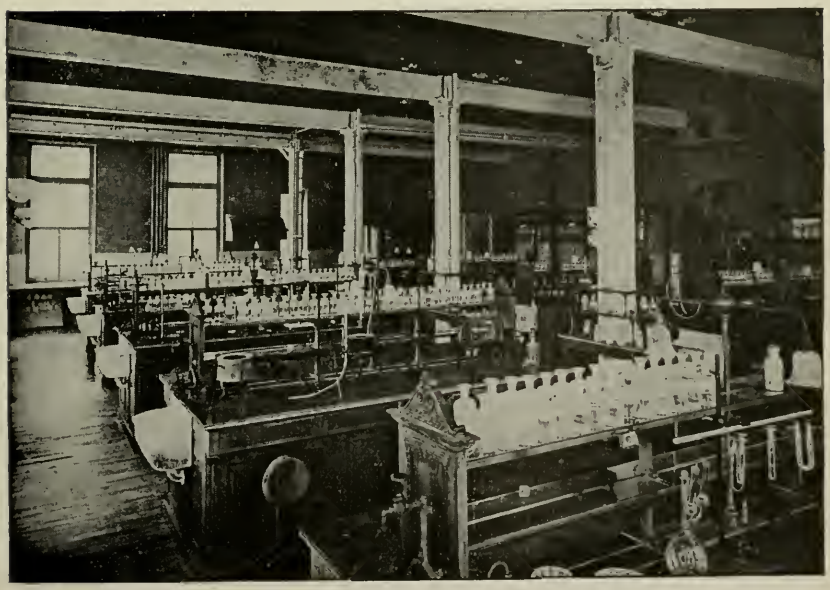
Advanced Sections.

With a view to the encouragement of higher work, Advanced Sections will be formed in all subjects as far as practicable, and in these Honours may be awarded. Permission to take an advanced section is granted by the Professor.

Students taking the work of advanced sections may be excused from the work of the corresponding ordinary courses on the recommendation of the professor. No exemptions from other subjects will be granted to students in advanced sections.



Macdonald Chemistry Building.—A Lecture Theatre.



Macdonald Chemistry Building.—A Laboratory.

Second Year.

Second Year.

English Composition, 2B.
Latin, 2.
and *three* of the following:
Greek, 2.
English, 2A.
French, 3, 4.
German, 3.
Hebrew, 1.
Psychology and Logic, 1A and 1B.
History 2, and Economics (Descriptive), 1.
Mathematics, 2.
Elementary Biology (Zoology, 1A, and Botany, 1.)
Chemistry, 1.
Physics, 2 (only for Honour students in Mathematics, Physics and Chemistry).

Students intending to take the double course in Arts (B.A.) and Applied Science must take Mathematics and Chemistry; those intending to take the double course in Arts (B.A.) and Medicine must take Chemistry and Biology.

Honour Courses.

Honour Courses will be offered in the Second Year. For modifications of the Second Year Course for Honour Students see p. 71.

Third and Fourth Years.

Third and Fourth Years.

The subjects of the Third and Fourth Years are arranged in the following divisions:—

Language and Literature.	History, Philosophy and Law.	Science.
English, 4A, 4B, 6A, 6B.	Philosophy, 3, 4, 5 *or* 6.	Mathematics, 3.
Latin, 3, 4.	History, 3, 7.	Mechanics, 4, and Astronomy, 4. (Two half courses).
Greek, 3, 4.	Economics, 2.	Physics: Sound, Light, Heat (full course), 2.
Sanskrit, 1A, 1B.	Political Science, 7.	Electricity and Magnetism (full course), 3.
Comparative Philology, (half course), 1A.	Constitutional Law.	Chemistry, 2, 3, 4; 5, 6, *or* 7, 8.
French, 5.	Roman Law.	Geology, 1.
German, 4.		Zoology, 2.
Italian, in alternate years.		Botany, 2, 3.
Semitic Languages, 2, 3.		*Physiology.
		*Anatomy.

* These courses in the Faculty of Medicine are accepted as the equivalents of ordinary courses in the Faculty of Arts in the case of Double Course students in Arts and Medicine, but not otherwise.

From the above divisions six courses are to be selected by each student in the Third and Fourth Years, three in each year. Each will be studied in lecture courses extending over not more than four hours per week, with collateral reading, and, in the case of the science subjects, laboratory work. One subject chosen in the Third Year *must* be continued by every student in his Fourth Year (Political Science, 7, will be accepted as a continuation of Economics, 2, and *vice versa*); two subjects *may* be continued if application to that effect be granted by the Faculty or the Advisory Committee of the Faculty. Of the whole six courses, one must be chosen by all candidates from the list of subjects included under the head of Science, except in cases where Chemistry or Biology has been selected as an option in the Second Year.

Every undergraduate in the Third and Fourth Years is required to submit to the Faculty, for their approval, at the beginning of the session, a written statement of the subjects he proposes to study during the session. He will not be allowed to discontinue any of these, if approved, or begin any other, without the special permission of the Faculty.

The Advisory Committee will meet not later than October 1st in each session, and report on the selections of subjects to the Faculty. It may also report on the subjects chosen by the First and Second Years.

In order to differentiate the B.A. curriculum from that laid down for the B.Sc. (Arts), candidates for B.A. are debarred from selecting more than three out of their six courses from the Science Division. Free options are allowed in all other cases (except as far as regards the selecting of at least one subject from the Science Division), subject to approval by the Faculty, on report from the Advisory Committee of the Faculty.

In addition to the six courses, a course of one hour a week in English Composition (4C, 6C) must be taken by every candidate for the Ordinary B.A. in the Third and Fourth Years, and also by Honour students in English.

For details of each subject, see Courses of Lectures, pp. 91-145.

A candidate who seeks to obtain an Ordinary B.A. Degree of the First Class must fulfil the following conditions: he must not only obtain the required aggregate of marks (viz., three-

fourths of the maximum), but he must also obtain First Class standing in three of his subjects, and not less than Second Class in any subject.

Professional Students.

For arrangements enabling Students in Medicine or Applied Science to take the course in Arts also, and obtain B.A., and B.Sc. (Applied Science), or M.D., in six years, see pp. 83-85; and for the course leading to the degrees of B.Sc. (Arts) and M.D. in six years, see pp. 85 and 86.

2. Honour Courses for the Degree of B.A.

Honour Courses.

Honours of First, Second, or Third Rank will be awarded to successful candidates in any Honour Course established by the Faculty, provided they have passed creditably the regular Examinations in all the subjects proper to their year.

A student proposing to read for an Honour Course: —

(1) Must satisfy the Department of his qualifications to proceed with the subject or subjects in question;

(2) Must, while attending lectures, make progress satisfactory to the Department. In case his progress is not satisfactory he may be notified by the Faculty to discontinue attendance.

Second Year Honours.

In any subject in which Honour courses of lectures are offered in the Second Year, a student may, on recommendation to the Faculty by the Department, be permitted to take such courses as an Honour student. An Honour student will not be required to select more than two subjects other than those included in the work of the Honour Course of study on which he enters, and may, on the recommendation of the Department, be allowed to substitute another subject for the ordinary course in Latin. Should the Honour course of lectures offered in any subject in the Second Year (including laboratory work in Science courses, and additional to the ordinary course in the same subject in all cases) not be equivalent to a full course of lectures, Honour students in that subject will be required to take, in addition to the two subjects previously indicated, work in a third subject sufficient in amount to make good the difference between the Honour course and a full ordinary course.

Students of the Second Year taking Honours in Mathematics or Chemistry or Physics may take the Third Year course in Physics as an ordinary subject.

Third Year Honours.

A candidate for Honours must take the Ordinary Course in the subject in which he is reading for Honours, but where the Honour Course corresponds to two ordinary subjects, a candidate may, at the discretion of the Department, be exempted from attendance on lectures in these ordinary subjects for a number of hours not exceeding four weekly. In addition to the Ordinary subject specified above, he is required to take a second Ordinary subject, which may be determined by the Department in which he is a candidate for Honours. The Faculty may, on the recommendation of the Department, exempt any student from the obligation to take a second ordinary subject.

Fourth Year Honours.

A student who desires to be a candidate for B.A. Honours must have taken at least Second Rank Honours in the Third Year. In this case he shall be required to take only one subject in his Ordinary Course, viz., that in which he is reading for Honours. A candidate, however, who obtains Third Rank Honours at the B.A. Examinations, will not be allowed credit at the end of the Session for the exemption from other ordinary subjects, unless the examiners certify that his knowledge of the whole Honour Course is sufficient to justify it.

Honour lectures are open to all Partial Students who can satisfy the Professor of their fitness to proceed with the work of the course. Such students will not be ranked with Undergraduates in the Examination lists.

No student is allowed to attend two Honour Courses without the special permission of the Faculty.

Note.—For subjects of Ordinary and Honour Courses, see p. 91, *et seqq.*

The following are the subjects in which Honour Courses are at present offered. Students who desire to graduate with Honours in any of them are strongly recommended to take the Advanced Sections of the Department in the First Year

and the Honour courses in the Second Year, where such are provided:—

1. *Classical Literature and History.
2. English Language and Literature.
3. *Modern Languages.
4. Semitic Languages.
5. Mental and Moral Philosophy.
6. History and Economics.
7. Mathematics and Natural Philosophy.
8. Chemistry.
9. Geology and Mineralogy.
10. Biology.

Honour Courses for Specialists in Ontario.

The following courses, leading to a degree in Honours in McGill University, have been accepted by the Education Department of the Province of Ontario as regards Specialists' standing, and confirmed by an Order in Council. The provincial regulation as to Specialists' standing is as follows:—

"51. (1) Any person who obtains a degree in Arts in the honor department of Mathematics, Science, Classics, English and History, Moderns and History, or French and German, as specified in the calendar of any University in Canada and accepted by the Education Department, who has graduated with at least second class honors (or 66 per cent., in each subject of such honor department) and who has been in actual attendance in such department at a University for not less than two academic years, shall be entitled to the non-professional qualification of a Specialist in such department."

Graduates of McGill University who, having taken these courses, have obtained the necessary standing in Honours, as stated in the foregoing regulation, will, on attending such courses and passing such examinations in subjects relating to the Art of Teaching and School Management as are prescribed by the Department of Education of the Province of Ontario, be qualified as specialists in that Province. Undergraduate students will not be permitted to substitute these courses for those of the regular McGill curriculum, except as a whole.

* Honours may be taken in Latin and French and in Latin and German, as well as in Latin and Greek, and in French and German, (see pp. 98 and 108).

A—SCIENCE.

COURSE I.—CHEMISTRY AND PHYSICS.

First Year.	Page.	Course.	Hours.	
English	102–103	1 B., 4 A.	2 per week.	
Latin	96	1	4	"
French	108	1	2	"
German	111	½ of 1	2	"
*Mathematics	129	1	4	"
Biology	140–142	1. ½ yr. 1A. ½ yr.	8	"

Summer work in Botany.

Second Year.					
French	109	Summer Reading and 3	2 per week.		
English	102	2 A., 2 B.	3	"	
German	112	Summer Reading & ½ of 3	2	"	
Chemistry	134	1	9	"	(?)
Physics	132	2	5	"	
Physiology	143	1. C.	3	"	for ½ yr.
Biology	142	1. B.	8	"	for ½ yr.

Third Year.				
Physics	133	3	5 per week.	
Mechanics and Hydrostatics	133	4	2	"
Biology { Botany	141	3 A. & 3 B.	8	"
Biology { Zoology	143	2	8	"
Chemistry	135	3 & 4	7	"

Fourth Year.				
Physics	133	6 (omitting Physical Chem.)	8 per week.	
Mathematics	129	3	4	"
Geol. & Palaeontology	137	1	6	"
Mineralogy	136	1, 3	5	"
Chemistry	135	7	2	"

* Fifty per cent is required for passing in Mathematics.

COURSE II.—NATURAL SCIENCE.

FIRST YEAR.

As in Course I.

SECOND YEAR.

As in Course I.

THIRD YEAR.	Page.	Course.	Hours.
English Comp.....	104	4 C.	1 per week.
Chemistry.....	135	3 & ½ of 4	7 " (4 hrs. avr.
Botany.....	140	2 (a) & (b)	8 "
Zoology.....	143	2	8 "
Physiology..... (Med. Fac.)			6 "
Physics.....	133	3	5 "

FOURTH YEAR.

English Comp.....	105	6 C.	1 per week.
Geol. and Palaeon.....137-138		1 and 3 A.	6 "
Botany.....	141	3 (a) & (b)	8 "
Zoology.....	143	3B. (a) (b)	8 "
Mineralogy.....	136	1 & 3	5 "
Chemistry.....	135	7	2 "

COURSE III.—CHEMISTRY AND MINERALOGY.

FIRST YEAR.

As in Course I.

SECOND YEAR.

As in Course I.

THIRD YEAR.

As in Course I.

FOURTH YEAR.

Chemistry	Page.	Course.	Hours.
(a)	135	7	2 p. week.
(b)	136	8	6 "
(c)	135	5	2 "
	135	6	3 "
Geology.....	137	1	6 "
Mineralogy...	136	1 & 3	5 "

B.—LITERARY COURSES.

COURSE I.—ENGLISH AND HISTORY (Modern Option.)

First Year.	Page.	Course.	Hours.
Mathematics	129	1	4 p. week.
Physics	131	1, (1) (2) (3) (4)	2 " & Lab.
Greek & Roman Hist.	92	1 History.	
	96	1 "	
Latin	96	1	4 "
English & History	102	1A., 1.B., 1.C.	4 "
German	111	2	4 "
French	108	1, 2	4 "
Second Year.			
Latin	96	Summer Reading and 2.	4 "
Psychology & Logic	116	1 A., 1 B	3 "
English	102	2 A., 2 B	3 "
German	112	Summer Reading and 3.	4 "
French	109	Summer Reading & 3, 4.	4 "

History taken in First Year.

Third Year.			
English	103-106	3 B, 4 C, 5, 7.	5 p. week.
German	112	Summer Read. & ½ of 4 or an equiv.	2 "
French	109	Summer Read. & ½ of 5 or an equiv.	2 "
History	122	3	4 "
Fourth Year.			
English	103-105	6 A, 6 C. and 4A or 4B or 6 B.	5 "
German	112	Summer Reading & ½ of 5.	2 "
French	109	Summer Reading & ½ of 5	2 "
History	122	4 or 5 or 6 with prescribed reading.	2 "

COURSE II.—MODERNS AND HISTORY.

First Year.	Page	Course.	Hours.
Latin	96	1.	4 p. week
Mathematics	129	1.	4 "
English & History	102	1.A., 1.B., 1.C.	4 "
German	111	2.	4 "
French	108	1. 2.	4 "
Second Year.			
Latin	96	Summer Reading & 2.	4 "
English	102	2.A., 2.B.	3 "
German	112	Summer Reading & 3.	4 "
French	109	Summer Reading & 3, 4.	4 "
History taken in 1st Year.			
Chemistry	134	1.	8 "
Biology	140	1.	
"	142	1. A.	
Third Year.			
Physics	132	1 (1) (2) (3) (4)	2 p. week.
History	122	3, or 4, or 5	2 "
English	103–106	3B, 4C, 5 and half of 7.	4 "
German	113	Portions 6, 7 (a) (b), 8.	5 "
French	110	Portions 7, 8 & 9.	5 "
Fourth Year.			
English	104	6 A.	2 "
History	122	4 or 5 or 6 (one not taken in 3rd year) with prescribed readings.	2 per week.
German	113	Remaining parts of 7 (a) (b) & 8.	5 "
French	110	Remaining parts of 7, 8, 9.	5 "

CLASSICS.

First Year.			
English and History	102	1 A. 1B. 1C.	4 p. week.
Latin, including History	96	1	4 "
Greek, including History	92	1	4 "
French or German	108 (111)	1 and 2 (2)	4 "
Mathematics	129	1	4 "
Physics	131	1	2 & Lab.

CLASSICS—Continued.

Summer Readings in Latin and Greek.

SECOND YEAR.	Page.	Course.	Hours.
English	102	2A. 2B.	3 p week.
Latin	96	2	4 "
Greek	93	2	4 "
Greek and Roman Hist.	93 & 96	2 History.	
Logic & Psychology	116	1A., 1B.	3 "
or French	109	3 & 4	4 "
or German	111	3	4 "
THIRD YEAR.			
Latin (including	97-98	3 (a) (b) (d) 4.	4 "
History	98-99	5 and 6	3 + Summer Cour.
Greek (including	94	3 (a) (b) (c) (d)	4 "
History and	95	5 and 6	3 + Summer Cour.
Comp. Phil.)	101	1 A., 1 B.	3 "
One extra subject to be chosen by the Dept.			4 "
FOURTH YEAR.			
Latin (including	98	4	4 p. week.
History	98-99	5 and 7	3 + Summer work.
Greek (including	94	4	"
History)	95	5 and 7	3 + Summer work.

MATHEMATICS.

FIRST YEAR.			
English & History	102	1A., 1 B., 1C.	4 p. week.
Latin	96	1	4 "
Physics	132	1 (1) (2) (3) (4	2 + Lab.
French or German or Greek as above.			4 "
Mathematics	129	1 and 5	6 "
SECOND YEAR.			
English	102	2 A., 2 B.	3 p. week.
Latin	96	2	4 "
Mathematics	129-130	2 and 6	7 "
Physics	132	2	5 "
THIRD YEAR.			
Mathematics	129-130	4, 7, 8, 9	7 p. week.
Physics	133	3, 4, 5	9 "
FOURTH YEAR.			
Mathematics	130	Selections from 11, 12, 13, 14, 15.	
Physics	133	5, 6.	

FRENCH AND GERMAN.

First Year.	Page.	Course.	Hours.
English & History	102	1A., 1B., 1C.	4 p. week.
Latin	96	1	4 "
Mathematics	129	1	4 "
Physics	131	1	2 + Lab.
French	108	1 and 2	4 "
German	111	2	4 "
Second Year.			
English	102	2A., 2B.	3 p. week.
Latin	96	2	4 "
Physics	132	2	Any two, 4 to 9 hours per week.
Chemistry	134	1	
Biology	140 / 142	1 / 1 A.	
Psychology and Logic	116	1 A., 1 B.	
Hebrew	115	1	
French	109	3 and 4	4 p. week.
German	112	3	4 "
Third Year.			
French	109–110	5, 7, 8, 9	7 p. week.
German	112–113	4, 6, 7, 8	7 "
English	103	3C.	1 "
Fourth Year.			
French	110	6, Rem. of 7, 8, 9	7 p. week.
German	112–113	5, Rem. of 6, 7, 8	7 "
English	104–105	6A., 6C.,	3 "

3. Ordinary Course for the Degree of B.Sc. (Arts).

The B.Sc. course in Arts has been specially arranged to give the student a thorough training in Science, combined with a good knowledge of English, French, and German. A wide range of sciences may be studied, and the course differs from those offered in the Faculty of Applied Science in the substitution of modern languages for the more purely technical work of that Faculty.

A high standard of attainment will in all cases be exacted, and it is expected that in the Final Year the course will include instruction in the methods of modern research.

First Year.

English, 1A, 1B, and History, 1.
French, 1, 2.
German, 2.
Mathematics, 1.
Physics, 2.

Second Year.

English, 2.
French, 3, 4.
German, 3.
Chemistry, 1—Laboratory work in addition.
Mathematics, 3, *or* **Elementary Biology.**

(*a*) Upon entering the Second Year, the student must decide upon the general character of the course which he will follow in the Third and Fourth Years. If his course in these Years is to consist chiefly of Mathematics and Physics, he must choose Mathematics; if it is to be chiefly Biological or Geological, he must take Biology; while if he intends to select Chemistry, he must take Mathematics if he intends to devote special attention to Physical Chemistry, but Biology if he intends to make special study of other branches of this science.

(*b*) A candidate for the degree of B.Sc. must obtain at least Second Class standing both in French and German at the Intermediate Examination, and, upon entering the Third Year, must, in order to proceed with his course, be able to read with ease scientific papers in both of these languages.

(*c*) The student shall, in the Third Year, take a full course in three of the following sciences, viz.:—Mathematics,

Physics, Chemistry, Zoology, Botany, Geology. He shall take, in addition, a portion of the B.A. Honour Course in one of them, as well as a course in English Composition.

(*d*) In the Fourth Year the student shall devote his time chiefly to advanced work in one of the three sciences which he has already studied in the Third Year. The course which he is to follow will be drawn up by the Professors of the science which he selects and must be approved by the B.Sc. Advisory Committee. He shall take, in addition, a Course in English Composition.

V. EXAMINATIONS.

1. There are two examinations in each year, viz., at Christmas and at the end of the Session. Successful students are arranged in three classes at the Sessional examinations.

Christmas Examinations will be held in all the subjects of the First and Second Years, and are obligatory on all Undergraduates, and also on all Partial Students of the First Year, unless they have been specially exempted. Partial Students of the First Year, who fail in the Christmas Examination, will be requested to withdraw from the class. Twenty-five per cent. of the marks given for the sessional work in each subject will be assigned for the results of the Christmas Examinations. Students prevented by illness from attending the Christmas examinations will, on presenting a medical certificate, be given sessional standing on the results of the April examinations. Candidates who fail in courses of the First and Second Years, terminating at Christmas, will be required to pass, at the April Examinations, on an extra paper in the subject in which they have failed.

Christmas Examinations in the Third or Fourth Years may be held at the option of the Professors. When held, the same value will be assigned to them as in the case of the First and Second Years.

2. An undergraduate who fails in one subject at the Sessional Examinations of the First or of the Second Year, will not be allowed to proceed with his course unless he passes a Supplemental Examination therein at the beginning of the Session, or takes the Summer Course, if there be one, in the subject, and passes the corresponding examination.

3. Failure in two or more subjects at the Sessional Examinations of the First or of the Second Year, or in one subject at the Third Year Sessional Examinations, involves the loss of the Session. The Faculty may permit the student to recover his standing by passing a Supplemental Examination at the beginning of the following Session. If he fail in any subject at this examination he will be required to repeat the year.

A Summer Course, on the same conditions as above, may be accepted instead of a Supplemental Examination.

4. Examinations Supplemental to the Sessional Examinations will be held in September, simultaneously with the Matriculation Examinations. The time for each Supplemental Examination will be fixed by the Faculty; the examination will not be granted at any other time, except by special permission of the Faculty, and on payment of a fee of $5.

5. A list of those to whom the Faculty has granted Supplemental Examinations in the following September will be published after the Sessional Examination.

Every candidate for a Supplemental Examination is required to notify the Registrar before the 1st of July of his intention to proceed to the examination. Forms of notification may be obtained on application.

Examinations for the Degree of B.A.

After passing the Matriculation Examination at entrance, candidates for the Degree of Bachelor of Arts must pass each of the four Sessional Examinations, including the Intermediate Examination at the end of the Second Year. Under the provisions of the new curriculum, the Third and Fourth Year Sessional Examinations constitute the Final.

1. Matriculation Examination.

1. The subjects are stated on p. 15.

2. Intermediate Examination.

2. The subjects are those prescribed for the Second Year, (see p. 69).

3. Final Examination.

The qualifying subjects for the B.A. Degree will, under the New Curriculum, consist of the six subjects taken up in course in the Third and Fourth Years (pp. 69-71).

VI. REGULATIONS re ATTENDANCE OF STUDENTS.

1. The total number of absences in any one course shall not exceed one-eighth of the full total of complete attendances in that course. A student absenting himself on a greater number of occasions than the above will not be permitted to come up for examination in the subject of that course.

The above regulation applies to all courses of study, but it is open to the Faculty to make special regulations still further limiting the number of absences permitted in any special course or courses.

2. Lectures shall commence at five minutes after the hour, on the conclusion of the roll-call, and students failing to answer to their names shall be marked "absent," unless they report themselves at the close of the lecture, in which case they shall be marked "late," and given such credit for attendance as the Faculty may deem advisable. Lectures shall end at five minutes before the hour.

VII. REGULATIONS FOR COURSES IN ARTS LEADING INTO THE PROFESSIONAL FACULTIES.

Any student intending to claim the privileges offered below, is required, at the beginning of the session, to present to the Dean of the Faculty of Arts a certificate of registration in the Professional Faculty, and to produce, at the end of the session, certificates of attendance and examination in the professional classes specified.

Arts and Applied Science.

1. Undergraduates beginning the Third Year in Arts, who have taken all the Ordinary Mathematics of the first two years, and the Chemistry of the Second Year, and who wish to pursue their professional studies in the Faculty of Applied Science so as to obtain the Degree of B.A. and B.Sc. (App. Sc.) within the following four years, will be exempted by the Faculty of Applied Science from the Mathematics of the First Year in Applied Science and from Chemistry of the Second Year.

2. They must, unless by special permission of the Faculty of Arts, distribute the course of the Third and Fourth Years in

Arts over three years, in accordance with the following schedule of studies:—

I. *In the Third Year*:—

(*a*) Physics of the Third Year.

(*b*) Two of the courses which are not placed under the heading "Science" in the Arts curriculum. The time tables of the two Faculties allow two of the following subjects to be chosen:—English, History, Political Science.

(*c*) Either one or two hours weekly in English Composition.*

II. *In the Fourth Year*:—

(*a*) Physics of the Fourth Year.

(*b*) One hour weekly in English Composition, if only one has been taken in the Third Year.

(*c*) The Mathematics of the Second Year Applied Science (6 hours weekly as 1½ courses).

III. *In the Fifth Year*:—

The Mathematics of the Third Year Applied Science (2 hours weekly as a half course), or another course in the Arts curriculum.

3. Students who, having obtained permission of the Faculty, desire to complete the course for the B.A. Degree in four years, are required to take a full course in one subject in the Arts curriculum in addition to the courses prescribed in 2, II, above.

Arts (B.A. Course) and Medicine.

1. Undergraduates beginning the Third Year, who have taken the Chemistry and Biology of the Second Year, and who wish to pursue their professional studies in the Faculty of Medicine so as to obtain the Degrees of B.A. and M.D. within the following four years, will be exempted by the Faculty of Medicine from the subjects of Chemistry and Physics, and Biology in the First Year of the Faculty of Medicine. In the Second Year (Arts) they are permitted to take the con-

* Note.—Students are recommended to distribute their English work over two years.

tinuation course in Animal Biology, on the same conditions as students taking the six years' course leading to the degrees of B.Sc. and M.D.

2. They may complete the Arts curriculum by taking the following courses:—

I. *In the Third Year*:—

(a) Anatomy and Practical Anatomy, Histology and Physiology, of First Year Medicine.

(b) Two of the courses which are not placed under the heading "Science" in the Arts curriculum. The time tables of the two Faculties allow the following to be chosen:—
(1) French or Moral Philosophy or Economics.
(2) Political Science.

(c) Either one or two hours weekly in English Composition.*

II. *In the Fourth Year*:—

(a) Anatomy and Practical Anatomy, Histology, Physiology, Chemistry, of Second Year Medicine.

(b) One hour weekly in English Composition, if only one has been taken in the Third Year.*

3. The Faculty strongly recommends intending students of Medicine who do not take the combined six years' course to spend a preliminary year in the study of the non-professional subjects, i.e., Biology, Chemistry, and Physics, before entering on the curriculum in the Faculty of Medicine.

Arts (B.Sc. Course) and Medicine.

1. Students who wish to take a combined course in the Faculties of Arts and Medicine with a view to obtaining the Degrees of B.Sc. (Arts) and M.D. within six years, must take Latin under head 7 of the Matriculation requirements for the B. Sc. course, see p. 15.

2. They must take the Ordinary B.Sc. course with the following modifications:—

Second Year Students shall take Elementary Biology. This course shall consist of either (1) the course in Elementary Biology required of First Year Students in Medi-

* NOTE.—Students are recommended to distribute their English work over two years.

cine (*i.e.*, 8 weeks Zoology together with 4 weeks Botany), together with a further course after Christmas (during the spring term of the Faculty of Arts) in Animal Biology: or (2) the full ordinary course in Elementary Biology of the Faculty of Arts, consisting of 12 weeks Zoology (up to Christmas) followed by 12 weeks Botany.

Third Year Students taking the Double Course shall be required to offer one of the following:—.

1. Zoology.—(*a*) The full Ordinary Continuation Course of the Faculty of Arts, and in addition (*b*) half the Honours Course, the latter to be taken during the first half of the session.

II. Physics.—(*a*) The full Ordinary Course of the Faculty of Arts, under which head students may take either the course in Sound, Light and Heat (Physics 2), or that on Electricity and Magnetism (Physics 3), or a combined course consisting of portions of these, and in addition (*b*) advanced work constituting half an Honours Course, the latter to be taken during the first half of the session.

III. Chemistry.—(*a*) A half-course in Physical Chemistry, during the first half of the session (from Chemistry, 7, 8); (*b*) a half-course in Organic Chemistry, during the second half of the session (Chemistry, 3, 6); (*c*) advanced work constituting half an Honours Course, the last to be taken during the first half of the session.

IV. Botany.—(*a*) The full Ordinary Primary Course of the Faculty of Arts (Botany, 2); (*b*) *either* half the Honours Course prescribed for Fourth Year Students in the Faculty of Arts (Botany, 6); *or* half an Honours Course in Chemistry, Physics or Zoology. The work under (*b*) is in any case to be taken during the first half of the session.

Fourth Year.—Wednesday afternoon and Saturday morning of each week shall be devoted either (1) to Laboratory Work in connection with still more advanced study in the subjects selected during the Third Year; *or* (2) to work in another branch of Science, provided the student is sufficiently well grounded to enable him to do the special work which may be assigned to him.

Arts and Law.

Students intending to go forward to the Faculty of Law are recommended to include in their Third and Fourth Years Arts, such subjects as Constitutional Law and History, Economics, Political Science, and Roman Law.

Literate in Arts.

A certificate of "Literate in Arts," will be given along with the professional degree in Medicine or Applied Science, to those who have completed two years' study in the Faculty of Arts, and have passed the prescribed examinations.

Students of the University Attending Affiliated Theological Colleges.

1. These students are subject to the regulations of the Faculty of Arts in the same manner as other students.

2. The Faculty will make formal reports to the governing body of the Theological College which such students may attend as to:—(*a*) their conduct and attendance on the classes of the Faculty; (*b*) their standing in the several examinations; such reports to be furnished after the Examinations, if called for.

3. Students of affiliated Theological Colleges who are pursuing a double course in Arts and Divinity (six years at least) will take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts, less a half course in each of these Years, or a whole course in either.

VIII. MEDALS, PRIZES, CLASSING, AND CERTIFICATES.

1. **Gold Medals** will be awarded in the B.A. Honour Examinations to students who take the highest honours of the First Rank in the subjects stated below, and who shall have passed creditably the Ordinary Examinations for the Degree of B.A., provided they have been recommended therefor to the Corporation by the Faculty on the report of the Examiners:—

The Henry Chapman Gold Medal for Classical Languages and Literature.

The Prince of Wales Gold Medal for Mental and Moral Philosophy.

The Anne Molson Gold Medal for Mathematics and Natural Philosophy.

The Shakspere Gold Medal for the English Language and Literature.

The Logan Gold Medal for Geology, Mineralogy and Palæontology.

The Major Hiram Mills Gold Medal for Biology.

The Governor-General's Gold Medal for Modern Languages and Literature.

The regulations for the Governor-General's Gold Medal are as follows:—

(1) The subjects for competition shall be the French and German languages and literature.

(2) The course of study shall extend over two years, viz., the Third and Fourth Years.

(3) The successful Candidate must be capable of speaking and writing both languages correctly.

(4) There shall be examinations in the subjects of the course in both the Third and Fourth Years, at which Honours may be awarded to deserving Candidates.

(5) The general conditions of competition and the privileges as regards exemptions shall be the same as for the other Gold Medals in the Faculty of Arts.

(6) Students from other Faculties shall be allowed to compete, provided they pass the examinations of the Third and Fourth Years in the above subjects.

(7) Candidates desiring to enter the Third Year of the Course, who have not obtained First-Class Standing at the Intermediate or Sessional Examinations of the Second Year in Arts, are required to pass an examination in the work of the first two years of the Course in Modern Languages, if called on to do so by the Professors.

(8) The subjects of examination shall be those of the Honour Course in Modern Languages.

In addition to the above, certain Medals are offered annually by the Alliance Française, at the discretion of the Department of Modern Languages.

If there be no candidate for any Medal, or if none of the candidates fulfil the required conditions, the Medal will be withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended. For details, see announcement of the several subjects below.

2 **Special Certificates** will be given to those candidates for B.A. who have been placed in the First Class at the

ordinary B.A. Examination; have obtained three-fourths of the maximum marks in the aggregate of the courses proper to the Third and Fourth Years, are in the First Class in not less than half of these courses, and have no Third Class. At this examination, no candidate who has taken exemptions (see pp. 83-87) can be placed in the First Class unless he has obtained First Class in the examination in four of the subjects offered (each corresponding to a full course of lectures), and has no Third Class.

3. **Certificates** of High General Standing will be granted to those Undergraduates of the first two years who have obtained three-fourths of the maximum marks in the aggregate of the studies proper to their year, are placed in the First Class in not less than half the subjects, and have not more than one Third Class.

4. **Prizes or Certificates** will be given to those Undergraduates who have distinguished themselves in the studies of a particular class, and have attended all the other classes proper to their year.

5. **Graduates** who attend lectures in any subject, and pass the corresponding examination therein, may obtain certificates of their standing, whether the course in question be Ordinary, Advanced or Honour.

6. **The Neil Stewart Prize**—An annual prize of $15, is open to all Undergraduates and Graduates of this University, and also to Graduates of any other University, who are students of Theology in some College affiliated to this University. The rules which govern the award of this prize are as follows:—

(1) The Candidate must pass, in the First Class, a thorough examination upon the following subjects: Hebrew Grammar; reading and translation at sight from the Pentateuch, and from such poetic portions of the Scriptures as may be determined.

(2) There will be two examinations of three hours each—one in Grammar and the other in Translation and Analysis.

(Course for the present year: Hebrew Grammar (Gesenius Translation and Analysis of Exodus; Isaiah XL., to the end of the book.)

(3) In case competitors should fail to attain the above standard, the prize will be withheld, and a prize of $30 will be offered in the following year for the same.

This Prize, founded by the late Rev. C. C. Stewart, M.A., and terminated by his death, was re-established by the liberality of the late Neil Stewart, Esq., of Vankleek Hill.

7. **Early English Text Society's Prize.**—This prize, the annual gift of the Early English Text Society, will be awarded for proficiency in the subjects of the language group in the English Honour curriculum of the Third and Fourth Years.

8. **New Shakspere Society's Prize.**—This prize, the annual gift of the New Shakspere Society, open to Graduates and Undergraduates, will be awarded for a critical knowledge of the following plays of Shakspere:—Hamlet, Macbeth, Othello, King Lear.

9. **Charles G. Coster Memorial Prize.**—This prize, intended as a tribute to the memory of the late Rev. Chas. G. Coster, M.A., Ph.D., Principal of the Grammar School, St. John, N.B., is offered by Colin H. Livingstone, B.A., to Undergraduates (men or women) from the Maritime Provinces (Nova Scotia, New Brunswick and Prince Edward Island). In April, 1906, it will be awarded to that Undergraduate of the First, Second or Third Year, from the above Provinces, who, in the opinion of the Faculty, has passed the most satisfactory Sessional Examinations, as stipulated by the donor.

10. **Annie McIntosh Prize.**—The income of the sum of $425, subscribed by the pupils and friends of the late Miss Annie M. McIntosh, will be offered as a prize to students of the Royal Victoria College in such subject, or for such work, as the Faculty may determine.

11. **Science Scholarships Granted by Her Majesty's Commissioners for the Exhibition of 1851.**—These scholarships, of the value of £150 a year, are tenable for two or, in rare instances, three years. They are limited, according to the Report of the Commissioners, "to those branches of Science, the extension of which is specially important for our national industries." Their object is not to facilitate ordinary collegiate studies, but "to enable students to continue the prosecution of science with the view of aiding

University Library.—Main Reading Room.

Redpath Museum.—Interior View.

in its advance or in its application to the industries of the country."

Seven nominations to these scholarships have already been placed by the Commissioners at the disposal of McGill University (in 1891, 1893, 1895, 1897, 1899, 1901, 1903 and 1905). A scholarship was awarded on each occasion.

When nominations are offered, they are open to students of not less than three years' standing in the Faculty of Arts or of Applied Science, and are tenable at any University or any other Institution approved by the Commissioners.

12. The names of those who have taken Honours, Certificates or Prizes will be published in order of merit, with mention, in the case of students of the First and Second Years, of the schools in which their preliminary education has been received.

IX. SUMMER CLASSES.

During the months of May and June, a series of SUMMER CLASSES will be conducted, intended mainly in the first instance, to meet the requirements of students in the first two years of their course. The subjects offered are English, Latin, Greek, Logic, Mathematics, French, German and Elementary Animal Biology. A fee of eight dollars will be exigible for any one class, and of four dollars for each additional class.

Courses (consisting chiefly of Laboratory work) will also be offered in Physics and Chemistry. The fee for each will be twenty-five dollars.

X. COURSES OF LECTURES.

DEPARTMENT OF CLASSICS.

PROFESSORS:—W. PETERSON, M.A., LL.D.

ASSOCIATE PROFESSOR:—A. J. EATON, M.A., PH.D.
ASSISTANT PROFESSOR:—S. B. SLACK, M.A.
LECTURER:—RUSSELL E. MACNAGHTEN, M.A.
TUTOR (Royal Victoria College):—ELIZABETH A. HAMMOND, B.A.

In this department, the work of the first two years is divided mainly between exercises in Grammar and Composition and the reading of selected authors. The attention of the student is at the same time directed to the collateral

subjects of History, Literature, Antiquities and Geography, in connection with which various text-books are recommended, as specified below.

In the Third and Fourth Years (as also in the Honour Courses) the instruction takes more of the lecture form, and an attempt is made to give a connected view of the leading branches of ancient literature, and the most important phases of ancient life and thought.

Students may be examined on the whole of the work prescribed for each class, even though it may not have been overtaken in lecture.

Subjects are suggested for Summer Readings in the various branches of class work. Students are strongly recommended to undertake these subjects during their long vacation, and credit will be given for them at an examination held in the first week in October.

Students are also recommended to devote some part of the vacation to the subjects set down under the head of History and Literature, which will form part of the Sessional Examination.

Greek*

Ordinary, First Year.

1. In this class, besides a review of grammatical principles (Allen's Elementary Grammar), portions of some Greek authors—*e.g.*, Xenophon, Homer, Herodotus, Lucian, and Euripides—are read and explained.

For 1905-06, the work will be Xenophon, Cyropædia, I (Shuckburgh, Pitt Press); Homer, Iliad, XVIII (Platt, Blackie's Illustrated Series); Euripides, Alcestis (Blakeney, Bell's Illustr. Classics). For *Composition*, the manual used will be North & Hillard's Greek Prose Composition (Rivingtons); for *Translation at Sight*, written and oral, Florilegium Tironis Græcum, Simple Passages for Greek Unseen Translation chosen with a view to their literary interest (Burrows and Flanders, Macmillan).

History.—From B.C. 560 to 479, Cox's "Greeks and Persians" (Longmans' Epoch Series).

Four hours a week.

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* It is in contemplation to institute an Elementary Class for those who come up from school without having taken Greek, if a sufficient number of students should present themselves.

2. The work of the Second Year will be selected mainly from the Greek Dramatists, and from Thucydides, Plato or Demosthenes. Students are expected to be provided with Allen's Elementary Greek Grammar. Second Year.

Subjects for 1905-06:—

Summer Readings. — Cebetis Tabula (Jerram, Clarendon Press). Students are also recommended to work through some portion of Burnet's Greek Rudiments (Longmans).

Sessional Lectures. — Plato, Apology and Crito (Dyer, Ginn & Co.); Homer, Odyssey I (Owen, Blackie); Aeschylus, Prometheus Vinetus (Rackham, Pitt Press). The practice of *Composition and Translation at Sight* will be continued as before: North & Hillard's Greek Prose Composition (Rivingtons), and Florilegium Tironis Græcum (Burrows and Flanders, Macmillan).

History.—The Athenian Supremacy as in Bury's History of Greece, chaps. VII-IX.

Literature.—Fowler's History of Ancient Greek Literature, pp. 1-57 and 179-246.

Four hours a week. For *Honours* students an additional hour will be provided for the purpose of further study.

The following books are recommended for reference during the first two years of the course:—Jebb's Introduction to Homer (Maclehose); Fowler's History of Greek Literature; Gow's Companion to School Classics (in part); Bury's History of Greece (Macmillan); Mahaffy's Primer of Greek Antiquities; and Tozer's Primer of Classical Geography (Macmillan); Allen's Elementary Greek Grammar (Clarendon Press); or Burnet's Greek Rudiments.

Students should provide themselves also with Kiepert's Atlas Antiquus.

3. Under the provisions of the new curriculum Greek is one of the subjects which may be offered as one of the six courses during the Third and Fourth Years together. The increased time which is thus given to it makes it possible to add to the reading of selected authors and the practice of Composition and Translation at Sight short courses of lectures on subjects of general interest in the departments of History, Philosophy, Literature, Art and Antiquities. Third Year.

For the Session 1905-06, the course will be as follows:—

a. Summer Readings. — Sophocles, Electra (Jebb, Rivingtons).

b. History, Literature, Art and Antiquities. — Courses will be delivered on one of the following two:—

(1) History of Greek Literature.

(2) Greek Antiquities.

These lectures will be illustrated, where possible, by lantern slides or photographs, while many of the best works on classical antiquities will also be accessible to the student in the College Library.

c. Authors.—Plato, Selections (Purves, Clarendon Press), pp. 55-112; Homer, Odyssey XXI-XXIV (Merry, Clarendon Press); Euripides, Orestes. (Wedd, Pitt Press).

d. For practice in *Composition,* Mackie's Parallel Passages for Translation into Greek and English (Macmillan); for *Translation at Sight,* Sportella, J. H. Fowler (Rivingtons).

Four hours a week.

Fourth Year.

4. Subjects for 1905-6.

Summer Readings.—Sophocles, Ajax (Jebb, Rivingtons).

The remainder of the course will be the same as for the Third Year.

A certain amount of reading in some of the following books will be found helpful:

Gow's Companion to School Classics (Macmillan); Bury's History of Greece (Macmillan); Jebb's Growth and Influence of Classical Greek Poetry (Macmillan); Campbell's Guide to Greek Tragedy (Percival); Abbott's Pericles (Putnam); Haigh's The Attic Theatre (Clarendon Press); Cornish's Concise Dictionary of Greek and Roman Antiquities (Murray); Fowler's History of Greek Literature; Kiepert's Manual of Ancient Geography (Macmillan); Greenidge's Constitutional History; Giles' Short Manual of Philology (Macmillan).

Students taking Comparative Philology as a half course in either the Third or Fourth Year may in that year omit from the prescribed courses in Greek, or Latin, or Greek and Latin together, one author (as may be arranged at the commencement of the session) and also the short course under the head of History, Literature, Art and Antiquities.

5. The work of the Honours Classes in Greek has been so arranged as to admit of separate courses of lectures being given, with illustrative readings, along certain main lines of literary study, in addition to supplementary work as provided for below. **Honours. Third and Fourth Years.**

In 1905-06 the Lecture courses will be as under, the books selected for class reading being specified under each separate head:—

A. Oratory: Demosthenes, de Corona (Goodwin's smaller edition. Cambridge University Press).

B. Drama: Aeschylus, Agamemnon (Sidgwick, Clarendon Press).

C. Pastoral Poetry: Theocritus (Cholmley, Bell & Sons).

Students of the Third Year taking Classical Honours are required to take two only of the above three courses.

Three hours a week.

Translation at Sight.—Fox & Bromley's Models and Exercises (Clarendon Press).

Prose Composition.—Mackie's Parallel Passages (Macmillan), and from dictation.

Seminary Work.—Essays and Lectures on History, Literature, Comparative Philology and Ancient Philosophy.

6. *Private Reading.*—Andocides, de Mysteriis (Hickie, Macmillan); Sophocles, Electra (Jebb, Rivingtons). **Third Year.**

In *History* the examination will be directed to testing a general knowledge of the course of Greek History to the death of Alexander, and a more minute knowledge of the development of the Athenian Constitution and the period of Athenian Supremacy. In *Literature*, a general knowledge will be expected of the course of Greek literature and a more minute knowledge of the lives and writings of the authors prescribed.

7. *Private Reading.*—Sophocles, Ajax (Jebb, Rivingtons); Lysias, in Eratosthenem; Aristophanes, Birds (Merry, Clarendon Press); Selections from Menander and Philemon (Pickard-Cambridge's Greek Comic Fragments, Clarendon Press); Aristotle, Ethics, I (Bywater, Oxford). **Fourth Year.**

Students are recommended to supplement the Lecture-Courses by a certain amount of reading in some of the following books:

History, Literature and Antiquities.—Bury, Symonds, Fowler; Jebb's Growth and Influence of Classical Greek Poetry;

Leaf's Companion to the Iliad; Butcher's Aspects of the Greek Genius; Mahaffy's Social Life in Greece; Jebb's Attic Orators.

Grammar and Philology. — Goodwin's Greek Moods and Tenses, and Giles's Short Manual of Philology (Macmillan); Monro's Homeric Grammar (Clarendon Press).

BRITISH SCHOOL OF CLASSICAL STUDIES IN ATHENS.

This University is a contributor to the support of this School, which affords facilities for archæological and classical investigation and study in Greece. Graduates in Arts of McGill University are accordingly entitled to special privileges and advantages as regards tuition in the School.

Latin.

Ordinary. First Year. 1. In this class, besides a general review of grammatical principles (New Latin Grammar, Allen and Greenough), portions of some Latin author,—such as Ovid, Tibullus, Livy, Sallust, Virgil, Horace or Cicero—are read and explained.

For 1905-6, the subjects will be Cicero, Pro Lege Manilia (Wilkins, Macmillan); Ovid, Elegiac Selections (F. C. Smith, Bell & Sons); Virgil, Aeneid V (Phillipson, Bell & Sons). For practice in *Composition,* both written and oral, the text-book in use during the first year will be North & Hillard's Latin Prose Composition (Rivingtons); and for *Translation at Sight,* Hardy's Latin Passages for Sight Translation (Macmillan). *History.*—Carthaginian Wars, B.C., 263-146; Shuckburgh's History of Rome, or "Rome and Carthage" (Longmans' Epoch Series). For advanced section only, Tacitus, Agricola (Pearce, Bell & Sons).

Four hours a week.

Ordinary. Second Year. 2. For 1905-06, the subjects will be:—

SUMMER READINGS.—Virgil, Georgics I (Page, Macmillan).

SESSIONAL LECTURES.— Livy, Bk. IX, cc. 1-19 (Walters, Bell & Sons); Horace, Wickham's Selected Odes (Clarendon Press); Virgil, Aeneid VII (Wainwright, Bell & Sons). *Composition and Translation at Sight,* Bradley's Arnold: and Hardy's Latin Passages for Sight Translation (Macmillan).

HISTORY.—The Last Century of the Republic, B.C., 133-31; as in How and Leigh's Roman History.

LITERATURE.—Joachim's Latin Literature in Dent's Temple Primer Series, with references to the subject matter of Quintilian X, chap. 1, §§ 37-131.

Four hours a week.

Honours. Second Year.

This Course will include the following subjects:— Tacitus, Agricola (Pearce, Bell & Sons); Horace, Historical Odes (Church, Blackie); Cicero, Second Philippic (Peskett, Pitt Press); Quintilian (ch. 1, §§ 37-131), Peterson, Clarendon Press, with lectures: supplemented by readings from Nixon's Parallel Verse Extracts (Macmillan). *Composition and Translation at Sight.*—North and Hillard's Prose Composition (Rivingtons); Alford's Latin Passages for Sight Translation (Macmillan).

The following books are recommended for reference during the first two years of the course: How and Leigh's History of Rome (Longmans); Strachan-Davidson's Cicero; Warde-Fowler's Caesar (Putnam); Wilkins' Primer of Roman Literature; Wilkins' Primer of Roman Antiquities; New Latin Grammar, Allen and Greenough.

Students should provide themselves also with Kiepert's Atlas Antiquus.

Ordinary. Third Year.

3. Under the provisions of the new curriculum, Latin is one of the subjects which may be offered as one of the six courses, during the Third and Fourth Years together. The increased time which is thus given to it makes it possible to add to the reading of selected authors and the practice of Composition and Translation at Sight short courses of lectures on subjects of general interest in the departments of History Philosophy, Literature, Art and Antiquities.

For the Session of 1905-06, the course will be as follows:—

(*a*) SUMMER READINGS.—Virgil, Aeneid VII (Sidgwick, Pitt Press).

(*b*) HISTORY, LITERATURE AND ANTIQUITIES.—Courses will be delivered on one of the following subjects:—

(1) History of the Last Century of the Republic.

(2) Roman Literature from 100 B.C. to 100 A.D.

These lectures will be illustrated, where possible, with lantern slides or photographs, while many of the best works on classical antiquities will also be accessible to the student in the College Library.

(*c*) Authors.—Tacitus, Histories I (Davies, Pitt Press); Juvenal, Selections (Duff, Pitt Press); Cicero, pro Plancio (Auden, Macmillan).

(*d*) For practice in *Composition,* Postgate's Sermo Latinus (Macmillan), and from dictation; and for *Translation at Sight,* Sportella (Fowler, Rivingtons).

Four hours a week.

Ordinary. Fourth Year.

4. Subjects for 1905-06:—

Summer Readings.—Virgil, Georgics I-II (Page, Macmillan).

The remainder of the course will be the same as for the Third Year.

Note.—The following books are recommended for reference: Gow's Companion to School Classics (Macmillan); Mackail's Latin Literature (Murray); How and Leigh's History of Rome (Longmans); Pelham's Outlines of Roman History (Percival); Capes' Early Roman Empire (Longmans' Epoch Series); Cornish's Concise Dictionary of Greek and Roman Antiquities (Murray); Kiepert's Manual of Ancient Geography (Macmillan); Bennett's Appendix to Latin Grammar; Giles, Short Manual of Philology (Macmillan).

Students taking Comparative Philology as a half course in either the Third or Fourth Year may in that year omit from the prescribed courses in Latin, or Greek, or Latin and Greek together, one author (as may be arranged at the commencement of the session) and the short course under the head of History, Literature, Art and Antiquities.

Honours. Third and Fourth Years.

5. Latin Honours may be taken in connection with Greek, or French, or German, to be known respectively as Honours in Classics, Honours in Latin and French, Honours in Latin and German. (See p. 108.) As in Greek, the work of the Honours Classes in Latin has been so arranged as to admit of separate courses of lectures being given, with illustrative readings, along certain main lines of literary study, in addition to supplementary work as provided for below. In 1905-06, the Lecture Courses will be on three of the following, the books selected for class reading being specified under each separate head:—

A. Didactic Poetry: Lucretius, Books III and V (Duff, Pitt Press).

B. Oratory.—The Dialogus of Tacitus: Cicero, Brutus.

C. Lyric and Elegiac Poetry: Selections from Horace, Catullus, Tibullus, and Propertius.

Third Year students seeking Classical Honours are required to take two only of the above three courses.

Three hours a week.

Translation at Sight.—Fox & Bromley's Models and Exercises (Clarendon Press). *Prose Composition.* — Postgate's Sermo Latinus (Macmillan) and Selected passages.

Seminary Work.—Essays and Lectures on History, Literature, Comparative Philology and Ancient Philosophy.

6. *Private Readings.* — Horace, Epistles, Book I (Wilkins, Macmillan); Cicero, Select Orations (King, Clarendon Press); Virgil, Aeneid VI (Sidgwick, Pitt Press). Third Year.

History.—A general knowledge of Roman History to the end of the first Century A.D., and a more minute knowledge of the period from B.C. 146 to the Death of Augustus.

Literature.—A general knowledge will be expected of the course of Roman Literature, and a more minute knowledge of the lives and writings of the authors prescribed.

7. *Private Readings.*—Livy II (Conway, Pitt Press); Cicero, Tusculan Disputations I, II, and Pro Cluentio (Peterson, Macmillan); Quintilian, Book X (Peterson, Clarendon Press). Fourth Year.

Students are recommended to supplement the Lecture-Courses by a certain amount of reading in some of the following books:

History, Literature and Antiquities.—How & Leigh's History of Rome (Longmans); Tyrrell's Latin Poetry; Students' Companion to Latin Authors (Middleton & Mills, Macmillan).

Grammar and Philology.—Lindsay's Short Historical Latin Grammar (Clarendon Press) and Giles' Short Manual of Philology (Macmillan); Lindsay's Textual Emendation (Macmillan).

BRITISH SCHOOL OF CLASSICAL STUDIES AT ROME.

The University has become a contributor to the support of this School, which has been recently instituted, and the same advantages will be enjoyed by members of the University as are offered in connection with the School at Athens (p. 96). The publications of both Societies are available in the University Library.

Sanskrit.

LECTURER:———————————

The two courses in Sanskrit are primarily intended for students who have passed the Intermediate examination, but permission may in certain other cases be obtained to attend the elementary course.

1. A. For beginners, the work mainly consisting in the mastering of the elements of Sanskrit Grammar with such composition as tends to fix in the mind the knowledge thus acquired. Etymological references will be frequently made and comparisons suggested in order at once to familiarize the language and give it an educational value in spite of the elementary nature of the course. This course counts as a half-course qualifying for the degree, and it is especially recommended to students attending the half-course in Comparative Philology.

Two hours a week.

1. B. For those students who have already passed through Course A or its equivalent in Sanskrit preparation; one hour per week is devoted to Lectures on Indian Literature, commencing (1905-06) with the Post Vedic Period. Two hours are devoted to reading selections; one hour to grammar and composition bearing especially on the texts read. Course B counts as one full course to the Final; courses A and B together, one and one-half, the student taking up Course B not being debarred thereby from repeating a course in another department.

Four hours a week.

Books required:—Perry, Sanskrit Primer; Whitney's Sanskrit Grammar; Lanman's Sanskrit Reader (Ginn & Co.). For reference: Sanskrit Literature, A. A. Macdonell (Heinemann).

Summer Readings.—A course of Summer Readings will be suggested according to individual needs. During the months of May and June the lecturer will be glad to give his personal supervision to students of Sanskrit and is prepared to give lectures if due notice is given.

Comparative Philology.

LECTURERS:—{A JUDSON EATON, M.A., PH.D.
{S. B. SLACK, M.A.

1. A.—INTRODUCTORY COURSE.—50 Lectures.

This course will deal with the following subjects: the history of the Science of Comparative Philology; the Indo-Germanic languages and their classification and relation to one another; the primitive home and culture of the so-called Aryan people; the nature of compounds in Indo-Germanic; recent theories about Ablaut and its relation to the Indo-Germanic system of accentuation; the importance of Ablaut in explaining apparent irregularities of declension and conjugation; external Sandhi in the Indo-Germanic languages; and the influence of Analogy and contamination in the formation of words. The lectures will then go on to discuss the various sounds of the primitive Indo-Germanic language, and the development of those sounds in the various languages of the Indo-Germanic family; the declension of the Noun and the conjugation of the Verb will be discussed from a historical standpoint, and, finally, some attempt will be made to indicate to the student what is being done by modern investigators in the field of Historical Syntax.

1. B.—COMPARATIVE GRAMMAR OF GREEK AND LATIN.—25 Lectures.

This course will deal more exclusively with the history and structure of these languages and their relation to the other members of the group.

It is primarily intended for Honour Students in the Classics, but is open also to such others as may be found to be qualified.

Certain exemptions in the Classical Courses (see pp. 94 and 98) are allowed to students taking the lectures in Comparative Philology, enabling them to make a full course by combining it with either Greek or Latin, or two full courses by combining it with both.

HONOUR COURSES IN CLASSICS.

The Courses prescribed for Honour Students in Classics are as follows:—

Third Year:—Latin, 3, 5, 6.
Greek, 3, 5, 6.
Comparative Philology, 1. B.

Fourth Year:—Latin, 4, 5, 7.
Greek, 4, 5, 7.

DEPARTMENT OF ENGLISH.

PROFESSOR:—CHAS. E. MOYSE, B.A., LL.D.
ASSOCIATE PROFESSOR:—P. T. LAFLEUR, M.A.
LECTURER:—J. W. CUNLIFFE, D.LIT.
TUTOR AND LECTURER (ROYAL VICTORIA COLLEGE):—
SUSAN E. CAMERON, M.A.

Ordinary.

First Year.

1. A. ENGLISH LITERATURE.—The course will present an outline of English Literature from the Anglo-Saxon Period to the Restoration, and will be illustrated by printed syllabuses and lantern slides. The general subject will be divided into three periods (Pre-Chaucerian, Italian, French), and approached for the most part through literary types. Students are recommended to use Morley's Charts of English Literature. Two hours a week.

1. B. ENGLISH COMPOSITION.—A course of lectures, chiefly synthetical, on the principles of English composition, with special reference to the use of words and the construction of sentences and paragraphs. Regular essays are required of all students. Text-Book:—Nichol's Manual (or an equivalent). One hour a week.

1. C. HISTORY.—The Main Epochs of European History, being History 1. (See p. 121.)

For affiliated colleges, in place of the above:—Halleck's History of English Literature (American Book Co.) pp. 1-304; with the following readings:—Chaucer, Prologue to the Canterbury Tales; Spenser, Faerie Queene, Book I; Milton, Comus; Johnson's Lives of the Poets, Dryden and Pope; European History (G. B. Adams, Macmillan). Regular practice and instruction in composition are strongly recommended.

Second Year.

2. A. LITERATURE.—English Prose from Bacon to Burke. Three hours a week before Christmas, with special readings, to be prescribed during the lecture course.

Nineteenth Century Literature. Three hours a week after Christmas. The text-book used will be Nineteenth Century Literature (Cunliffe and Cameron, Copp, Clark Co., Limited).

2. B. COMPOSITION.—Continuation of 1 B.

Fortnightly Essays will be required and will be taken into account in determining the standing of students at the end of the session.

This course is obligatory for all Second Year students.

For affiliated colleges:—Halleck's History of English Literature, pp. 305-480, and Nineteenth Century Literature (Cunliffe and Cameron, Copp, Clark Co.). Continued work in composition is strongly recommended.

Honour Students in the Second Year will also take the following:— **Honours. Second Year.**

3. A. British History during the Seventeenth and Eighteenth Centuries, being History 2 (see p. 122). Two hours a week to end of January.

3. B. English Language. One hour a week. Sweet's Anglo-Saxon Reader, Extracts IV, VIII, XXI; Sievers, Grammar of Old English, ed. Cook (Ginn & Co.).

3. C. Chaucer. One hour a week. Students will read the following works for examination:—The Parlement of Foules; The Prologue to the Canterbury Tales; The Knightes Tale; The Nonne Preestes Tale.

4. A. ENGLISH LITERATURE.—Shakspere.—This course will **Third Year.** begin with a review of the early history of the English drama, and of the conditions which led to its development in the time of Elizabeth. The advances made by the earlier Elizabethan dramatists will be noted, and Shakspere's methods illustrated by a comparative study of A Midsummer Night's Dream, Romeo and Juliet, Henry V, As You Like It, Hamlet, Macbeth, King Lear, and The Tempest; the relation of these plays to their sources will also be considered. Students are recommended to read as many of Shakspere's plays as they can, and to give special attention to those mentioned above. Two hours a week.

4.B. A course on Poetry and the Drama. England from 1660 to 1789, with special and detailed reference to changes in literary ideals and expression during the period discussed. The lectures will include poets, from Dryden to Crabbe; dramatists, from the writers of Heroic plays to Sheridan. Students will be called upon to pay special attention to the following works: Dryden, Absalom and Achitophel; Pope, Selections from the Essay on Man, and The Rape of the Lock; Thomson, The Seasons (one book); Cowper, The Task (one book); Crabbe, The Borough (four divisions); Dryden, Essay on Dramatic Poesy; Addison, Cato; Goldsmith, She Stoops to

Conquer; Sheridan, The School for Scandal. Two hours a week.

4. C. English Composition.—An advanced course on English Composition, including style, methods and principles of literary criticism treated from the historical point of view, and an introduction to the comparative study of literature in accordance with the most recent results of contemporary thought and research. In connection with this course students will be examined in a course of prescribed readings. Essays at stated periods are required of all.

Books of reference and authorities: — Saintsbury's History of Criticism; Lessing, Sainte-Beuve, Brunetière, Arnold, Ruskin, Worsfold. One hour a week.

Honours. Third Year

Honour students in the Third Year will also take the General Course in Comparative Philology (1A. Two hours a week up to Christmas (see p. 101), and the following, together with courses 10, 11, and 12 (pp. 106 and 107) :—

5. English Language. One hour a week. Sweet, Anglo-Saxon Reader, Extracts I, II, III, XX; Wright, Primer of the Gothic Language, The Gospel of St. Mark (Clarendon Press). (The use of Braune, Gotische Grammatik is recommended.)

Fourth Year.

6. A. English Literature. — A Course on the Leading Poets of the Nineteenth Century. The chief aspects of the French Revolution will be considered, and Republican feeling in England illustrated chiefly from the works of Wordsworth, Coleridge and Southey. The indirect revolutionary poets Byron and Shelley will then be considered, and their typical poems, together with those of the poets already mentioned, critically examined. The remainder of the course will be given to Scott, Keats, Tennyson, Browning, Matthew Arnold and Swinburne. Two hours a week.

The following poems have been selected for private reading:—

Wordsworth:—The Scholars of the Village School of — ; Two April Mornings; The Fountain; The Peak of Weatherlam, in the Prelude ("One Summer evening (led by her) I found," Book I); Lucy Poems; "Earth has not anything—;" Hart-leap Well; Tables Turned; Lines written in early spring; To my Sister; Excursion—The Vision in the Skies, ("So was he lifted gently from the ground," Book II); The Child and

the Shell, ("I have seen a curious Child," Book IV); Laodamia; "It is a beauteous evening"; "The world is too much with us"; "Scorn not the Sonnet"; "Milton, thou shouldst be living"; Daffodils; The Yarrow Poems. Coleridge:—Dejection; Ode to France; Lines to a Gentleman, composed on the Night after his Recitation of a Poem on the Growth of an Individual Mind; Love; Youth and Age; Fancy in Nubibus; Christabel; Hymn before sunrise in the Vale of Chamouni. Scott:—Lady of the Lake; Wild Huntsman; Fire King. Byron:—A Distant View of Harrow on the Hill; Childish Recollections; Manfred; Childe Harold, Canto I. Keats:—Isabella; Ode to a Grecian Urn; Chapman's Homer. Shelley:—Ode to the West Wind; The Cloud; The Skylark; Alastor; Ozymandias; Adonais. Tennyson:—The Princess; In Memoriam. Browning:—Saul; Johannes Agricola; Pictor Ignotus; Frà Lippo Lippi; Andrea del Sarto; The Bishop orders his Tomb at Saint Praxed's Church. Matthew Arnold:—Requiescat; Stanzas on The Grande Chartreuse; The Scholar Gipsy; Thyrsis.

6. B. A general course on the history of English Prose Fiction from Richardson to the middle of the nineteenth century, treating of the various forms successively given to English novels during the period, and the influences that stimulated or otherwise affected such productions. While students are expected to show particular knowledge of English masterpieces in this kind, frequent reference to cognate works by continental writers will also demand some familiarity with contemporary European literature. Portions of the following works will be selected for detailed study and discussion: Richardson, Clarissa Harlowe; Fielding, Amelia; Goldsmith, The Vicar of Wakefield; Godwin, Caleb Williams; Walpole, The Castle of Otranto; Thackeray, Henry Esmond. *Books of reference*:—Raleigh, The English Novel; Dunlop, History of Fiction; Tuckerman, Jeaffreson. Two hours a week.

6. C. English Composition.—The statement respecting 4 C (p. 104) indicates the method and character of this course, which is regarded as a continuation of the course in the Third Year.

Honours. Fourth Year Language.

Honour Students in the Fourth Year will select Language or Literature.

Language Students will take the following special courses in addition to 6A, 6B, and 6C:—

7. Anglo-Saxon.—The whole of Béowulf will be read in class and illustrated by notes on origins, philology and textual emendations. *Text-Book*: Harrison and Sharp's Béowulf (Ginn). Students will read selected portions of other poems for examination. Anglo-Saxon prose will be studied mainly in the translation of Gregory's Pastoral Care and Ælfric's Homilies. Students will be guided in the examination of dialectal texts and referred to important articles in periodical literature dealing with that subject and also with the field of Anglo-Saxon generally.

Two hours per week.

8. Middle English. — The course is intended to give a knowledge of dialectical English and to illustrate the changes the language has undergone. The texts given in Morris's Specimens of Early English, Part I, and Morris and Skeat's Specimens of Early English, Part II, may be regarded as the chief material for study. A list of books of reference and of important monographs will be given at the commencement of the course.

Two hours a week.

9. Mœso-Gothic.—The course on Mœso-Gothic is intended to open the way to the comparative study of allied Teutonic languages. Particular attention will be given to the phonological relations of Mœso-Gothic and Anglo-Saxon. *Text-Books*: Wright, Primer of the Gothic language; Ulfilas (Heyne).

Literature. Honour Students selecting Literature will take the following (after 1905-6) in addition to the ordinary work of the Fourth Year, and two hours a week in Language:—

10. Modern Prose Writers.—After a short sketch of the earlier history of English prose, attention will be directed to the development of periodical literature and the rise of journalism. The influence of leading essayists upon their contemporaries and successors will be analyzed, with special reference to the works of Carlyle, Ruskin, Matthew Arnold and Robert Louis Stevenson. Some account will be given of modern newspaper organization and its relation to present-day literature.

Students will read the following works for examination: Carlyle, Heroes and Hero Worship; Ruskin, Crown of Wild

Olive; Arnold, Essays in Criticism, Second Series (Macmillan); Stevenson, Virginibus Puerisque.

Two hours a week.

11. Comparative Literature.—A course of lectures on the influence of English literature upon the continent of Europe, chiefly during the eighteenth and nineteenth centuries. The treatment discusses mainly the historical development of ideas, but examines also corresponding modifications regarding literary method and form.

Voltaire, Letters concerning the English Nation; Elton, The Augustan Age; Texte, Jean Jacques Rousseau and the Cosmopolitan Spirit in Literature (tr. Matthews); Brunetière, L'Evolution des Genres.

Two hours a week.

12. Browning.—This course will aim at explaining Browning's view of the poetic art, his characteristic methods, and his outlook on the life and thought of his time. Selected shorter poems will be studied in class, and detailed lists of these, arranged under subject-headings, will be supplied for private reading.

Two hours a week.

Any of the above honour courses may be taken as an ordinary course with the approval of the Faculty, provided that the time-table allows of such substitution.

POST-GRADUATE COURSES.

13. Shakspere. — The history of Shaksperean criticism, textual and æsthetic, will be traced from its beginnings in England and Germany to the present time. Students will be directed to make themselves acquainted by private reading with the most important problems and results of modern research.

Two hours a week.

Courses will, if applied for, be given to graduate students on (*a*) The Masque and (*b*) The Sources and Development of Pre-Shaksperean Tragedy.

HONOUR COURSES IN ENGLISH.

The courses prescribed for Honour Students in English are as follows:—

Second Year:—3A, 3B, 3C.

Third Year:—4A, 4B, 4C, 5, 10, 11, 12 and Comparative Philology 1A.

Fourth Year:—6A, 6B, 6C, and *either* 7, 8, 9 *or* 10, 11, 12.

DEPARTMENT OF MODERN LANGUAGES.

PROFESSOR:—HERMANN WALTER, M.A., PH.D.

LECTURERS:—LEIGH R. GREGOR, B.A., PH.D
E. T. LAMBERT, B.A.
J. L. MORIN, M.A.

LECTURER AND TUTOR (ROYAL VICTORIA COLLEGE):—
MLLE. MILHAU, LIC. UNIV. FR.

A.—French.

Owing to the position which this University occupies in the midst of a very large French-speaking population, there is a permanent demand for courses of a practical, conversational character; for the same reason the Department profits by the co-operation of French church services, French family life, French newspapers, French theatres, French literary clubs, and public lecture courses in the French language.

In drawing up the following dual courses endeavours have been made to meet the special needs of the professional men of the Province of Quebec (every student being given the opportunity to learn to speak French), and also to provide for the maintenance of scientific methods. In Courses 1 and 3, the study of grammar and literature is carried on in accordance with the usual academic traditions, the French language being, however, largely used in class instruction. In Courses 2 and 4, the method of teaching is of a more practical character; the French language only is used, and the texts prescribed are made the subject of conversation, analysis, résumés, etc. In the Third and Fourth Years all lectures are given and all studies carried on in French.

Honours may be taken in French and German together or in Latin and French or in Latin and German. (See pp. 73 and 98).

Ordinary. First Year.

1. Borel, Grammaire Française (Holt and Co.); Sandeau, Mlle. de la Seiglière (Heath); Super, Histoire de France (Holt).

2. Coppée et Maupassant, Tales (Holt); Lamartine, Scènes de la Révolution Française (Heath and Co.); Girardin, La Joie fait Peur (Holt); German and French Poems (Holt and Co.).

There will be regular written exercises. Great importance will be attached to correct pronunciation, which will be taught phonetically.

The examinations for the students of Affiliated Colleges will include the whole of courses 1 and 2. Equivalents for the oral work of Course 2 and the oral examination will be stated on application.

Four hours weekly, two for each course.

Second Year.

SUMMER READINGS for students entering on their Second Year:—Molière, Femmes Savantes (Heath & Co.); Vigny, La canne de jonc (Heath and Co.).

The Examination on Summer Readings will be held in the first week of the Session.

SESSIONAL LECTURES.—

3. Borel, Grammaire Française (Holt and Co.); Corneille, Horace (Holt); A. de Vigny, Cinq-Mars (Heath); Elementary Historical French Grammar.

4. Mansion, Esquisse de la Littérature Française (McDougall, London); Racine, Andromaque (Holt); Molière, L'Avare (Heath and Co.); V. Hugo, Scènes de Voyage (Holt and Co.); German and French Poems (Holt and Co.).

The examination for the students of Affiliated Colleges will include the whole of Courses 3 and 4. Equivalents for the oral work of Course 4 and the oral examination will be stated on application.

Four hours weekly, two for each course.

For Honour students an additional hour will be provided for the purpose of further study.

Third and Fourth Years.

The courses will consist mainly in the study of French Literature and Advanced Prose Composition.

SUMMER READINGS for students entering on the Third or Fourth Year:—Molière, Tartuffe (Heath); Taine, Origines de la France Contemporaine (Holt).

The Examination on Summer Readings will be held in the first week of the Session.

SESSIONAL LECTURES:—

1905-1906.

5. Literature in the XVIIIth and XIXth Centuries; Lesage, Gil Blas (Heath and Co.); Marivaux, Le Jeu de l'Amour et du Hasard; J. J. Rousseau, Selections; Voltaire, Mérope; Victor Hugo, Hernani; Musset, Selections (Ginn and Co.); Balzac, Eugénie Grandet; Richepin, Par le Glaive.

Prose Composition.—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall and Co., London).

1906-1907. 6. Literature up to the end of the XVIIth Century; Corneille, Polyeucte; Racine, Athalie, Bajazet; Molière, L'Avare; Boileau, L'Art Poétique (Pitt Press); La Bruyère, Selections; Madame de la Fayette, La Princesse de Clève.

Prose Composition:—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall and Co., London).

N.B.—In order to be admitted to the above classes a student must understand French well enough to take lectures delivered in French.

Four hours weekly.

Honours. **Third and Fourth Years.** The work of the Honours Classes in French is divided into three sections. The First includes the Historical study of the French language, the Second, the History of French Literature, the Third, French Composition and the Reading and Study of French Texts. The First and Second Sections are taken up in alternate years, the Third annually. Students of the Third and Fourth Years take lectures together. In order to obtain Honours, candidates must be able to speak French fluently.

Philology. 1905-1906. 7. This course will deal with the Historical development of the French language from its origin to the present day. The Old French Period will receive special attention, and in this connection the oldest texts will be read. Provençal grammar will be referred to. Students will make use of Schwan's Altfranzösische Grammatik (revised by Behrens), Darmesteter's Cours de Grammaire Historique, Nyrop's Grammaire Historique and Bartsch, Chrestomathie.

Three hours weekly.

History of Literature. 1906-1907. 8. Inasmuch as the Ordinary Course provides a comprehensive survey of French Literature, Honour Students will be required to make a special study of certain men, movements and periods.

Three hours weekly.

Texts and Composition. 9. Students will receive instruction in the art of composition. They will be required to write a number of French papers on literary subjects, in connection with which readings will be suggested.

Students will take as part of their Honour Course in Modern Languages that part of section 1. A, of the Course on Com-

parative Philology which deals with the general principles of linguistic development.

N.B.—Before entering on their Third Year Course, Honour Students are expected to have read the following:—Corneille, Le Cid, Horace, Cinna, Polyeucte; Racine,—Andromaque, Britannicus, Phèdre, Athalie; Molière,—Ecole des Femmes, Misanthrope, Tartuffe, Le Bourgeois Gentilhomme, Les Femmes Savantes; Boileau,—L'Art Poétique, except when these texts are part of the readings prescribed for the Ordinary Course.

B.—German.

The Ordinary Courses mainly keep practical ends in view. In the first two years special attention is given to Grammar, in the Third and Fourth to Literature. Texts are studied from the æsthetic and critical as well as from the historical and linguistic point of view. A considerable amount of translation is done in class, English-German exercises in the prescribed text-book on Grammar being supplemented by the translation into German of easy prose passages and the retranslation of texts. Importance is attached to correct and expressive reading aloud.

Ordinary. Beginners Course.

1. The Joynes-Meissner German Grammar (Heath and Co.); Joynes, German Reader (Heath and Co.); Stern, Geschichten vom Rhein (American Book Co.); Riehl, Der Fluch der Schönheit (Holt); Schiller, Maria Stuart (Heath and Co.); Wildenbruch, Harold (Heath and Co.).

A tutorial class conducted during May and June enables students to overtake work not completed by the close of the Winter Session.

Four hours weekly.

First Year.

2. The Joynes-Meissner German Grammar (Heath and Co.); Horning, German Composition; Riehl, der Fluch der Schönheit (Holt); Gutzkow, Zopf und Schwert (Holt); Schiller, Maria Stuart (Holt and Co.); German and French Poems (Holt and Co.).

Four hours weekly.

The examination for the students of Affiliated Colleges will, in addition to the above, include equivalents for the oral examination, which will be stated on application.

Second Year. SUMMER READINGS for students entering on their Second Year:—Dahn, Kampf um Rom (Heath).

The Examination on Summer Readings will be held in the first week of the Session.

3. SESSIONAL LECTURES. — The Joynes-Meissner German Grammar; Horning, German Composition; Schiller, Tell (Holt); Freytag, Karl der Grosse (Holt); Schiller's Ballads (Heath and Co.); Gœthe, Hermann und Dorothea (Holt & Co.); Keller, Bilder aus der Deutschen Literatur (American Book Co.), edition 1905.

Four hours weekly.

For Honour students an additional hour will be provided for the purpose of further study.

The examination for the students of Affiliated Colleges will, in addition to the above, include equivalents for the oral examination which will be stated on application.

Third and Fourth Years. 1905-1906. SUMMER READINGS for students entering on their Third or Fourth Year.—Schiller, Gustav Adolph in Deutschland (Am. Book Co.).

The Examination on Summer Readings will be held in the first week of the Session.

4. Lessing, Nathan (Am. Book Co.); Gœthe, Iphigenie (Pitt Press); Lessing, Dramaturgie (Selections); Schiller, Wallenstein's Tod; Keller, Legenden (Holt and Co.).

Translation of prose passages from English into German.

Four hours weekly.

1906-1907. 5. Gœthe, Egmont (Ginn & Co.); Schiller, Die Braut von Messina (Holt); Kleist, Prinz Friedrich von Homburg (Ginn & Co.); Sudermann, Der Katzensteg (Heath & Co.); Gœthe, Poems (Holt).

Translation of prose passages from English into German.

Four hours weekly.

Honours. Third and Fourth Years. The work of the Honour Classes in German is divided into three Sections. The First includes the Historical study of the German Language; the Second, the History of German Literature; the Third, German Composition and the Reading and Critical Study of Texts. The First and Second Sections are taken up in alternate years; the Third, annually. Students

of the Third and Fourth Years take Lectures together. Language in German is taken up in the same Session as Literature in French, and *vice versa*. The German Language alone is used in class instruction.

In order to obtain Honours, candidates must be capable of speaking German fluently.

History of Literature. 1905–1906.

6. Inasmuch as the Ordinary Course provides a comprehensive survey of German Literature, Honour Students will be required to make a special study of certain men, movements and periods.

Three hours weekly.

Philology. 1906–1907.

7. (*a*) A general outline of the development of the German Language from its origin to the present day, in the course of which the operation of the principal laws exemplified in the growth of the language will be traced.

(*b*) A special study of the Middle High German period, its language and literature, with selected texts.

The following books will be used:—Bachmann, Mittelhochdeutsches Lesebuch (Faesi and Beer, Zurich); F. Kaufmann, Deutsche Grammatik; Behaghel, Die Deutsche Sprache; Wright, Middle High German Primer (Clarendon Press).

Three hours weekly.

Texts and Composition.

8. Students will receive instruction in the art of composition. They will be required to write a number of German papers on literary subjects in connection with which readings will be suggested.

Students will take as part of their Honour Course in Modern Languages that part of section 1. A, of the Course on Comparative Philology which deals with the general principles of linguistic development.

N.B.—Before entering on their Third Year Course, Honour Students are expected to have read the following:—Lessing,—Minna von Barnhelm or Nathan der Weise; Schiller,—Wilhelm Tell, Maria Stuart, Jungfrau von Orleans, Wallenstein, Ballads; Gœthe,—Gœtz von Berlichingen, Egmont, Hermann und Dorothea, Poems, except when any of these texts are part of the readings prescribed for the Ordinary Course.

Italian.

LECTURER:—LEIGH R. GREGOR, B.A., PH.D.

The following course, given in alternate years, is intended for students who have passed the Intermediate Examination. Partial students who wish to join the class must give satisfactory evidence of their ability to keep up with the undergraduates.

1905-1906. Grandgent, Italian Grammar (Heath & Co.); Grandgent, Italian Composition (Heath & Co.); De Amicis, Selections from Il Cuore; Manzoni, Selections from I Promessi Sposi; selections from the Divina Commedia; Notes on some of the great names of Italian Literature.

Spanish.

LECTURER:—J. L. MORIN, M.A.

Beginners' Course. Hill and Ford, Spanish Grammar (Heath); Matzke, Spanish Readings (Heath); Valera, El Pajero verde (Ginn); Moratin, El si de las ninas (Ginn); Galdos, Doña Perfecta (Ginn).

A tutorial class conducted during May and June enables students to overtake work not completed by the close of the Winter Session.

Four hours weekly.

HONOUR COURSE IN MODERN LANGUAGES.

The courses prescribed for Honour Students in Modern Languages are as follows:—

Third Year:—French, 5, 7, 9.
German, 4, 6, 8.
Comparative Philology, 1. A.

Fourth Year:—French, 6, 8, 9.
German, 5, 7, 8.

DEPARTMENT OF SEMITIC LANGUAGES.

PROFESSOR:—D. COUSSIRAT, B.A., B.D., D.D., OFFICIER DE L'INSTRUCTION PUBLIQUE.

The course comprises lectures on the above languages and their literature, their genius and peculiarities. Comparative philology, affinity of roots, etc., also receive due attention, while the portions selected for translation will be illustrated and explained by reference to Oriental manners, customs, history, etc.

Mathematical Laboratory.

Petrographical Laboratory.

1. Hebrew grammar and translation. English rendered into Hebrew. Masoretic notes explained. The Hebrew text compared with the Septuagint and Vulgate Versions. **Ordinary. Second Year.**

   Four hours a week.

   This course may also be taken as a course in either the Third or Fourth Years, by students who have not taken it in the Second Year.

2. Hebrew Syntax. Translation of difficult passages of the Old Testament. Notes on the Massora and the Talmud (Mishna and Gemara). Aramaic. **Third Year.**

3. Translation continued. Characteristics of the Semitic Languages, particularly of Syriac, Samaritan, Rabbinic, Arabic, Assyrian. Semitic Inscriptions. **Fourth Year.**

   Four hours a week for the combined courses.

4*a*. Hebrew.—Genesis, Isaiah, 40-66. Ecclesiastes. *Literature.*—Books to be selected at the beginning of the session. **Honours. Third and Fourth Years.**

4*b*. Aramaic.—Daniel. Ezra. Selections from the Targums. *Literature.*—Books to be selected at the beginning of the session.

   Two hours a week.

5*a*. Hebrew.—Malachi, Psalms, 1-72; Job, 26-42. *Literature.*—Renan. A general History of the Semitic Languages.

5*b*. Syriac.—Selections from the Peshito, and from the Chronicles of Bar Hebræus. *Literature.*—W. Wright, Comparative Grammar of the Semitic Languages.

   Two hours a week.

DEPARTMENT OF PHILOSOPHY.

Professors:—W. Caldwell, M.A., D.Sc.; A. E. Taylor, M.A.

Lecturers:—Hilda D. Oakeley, M.A.; J. W. Hickson, M.A., Ph.D.

The courses in this department are designed to meet the wants of students in the Faculty of Arts, of students in the professional schools and of partial students.

In addition to regular and continuation courses short sets of study or lecture-courses are given from time to time. See e.g. Course 14 or Courses 2A, 2B.

In all the ordinary courses such topics as the subject of Scientific Method, the relation of Ethics to legal and social questions, the relations of Psychology and Philosophy to Education, etc., are definitely kept in view.

Attention is drawn to the fact that it is now possible for students (graduate and others) to specialise in Psychology as well as in Mental and Moral Philosophy.

Ordinary. Second Year.

1A. Psychology. Text-book:—James, Psychology, Briefer Course, pp. 1-277, omitting chs. 7, 14, 15.

This course will include a general account of sensation, with special illustration by reference to the sensations which are of pre-eminent importance for the purposes of practical life (sight, hearing, contact, movement). This will be followed by a general outline sketch of the functions of the central nervous system and particularly of the higher brain-centres, as the physiological correlates of mental activity. In this connection reference will be made to the more important results obtained from vivisectional experiment and from the study of mental disorder. The nature of Habit and its importance for mental life will next be studied, and will be followed by an examination of the leading features of the concrete stream of actual mental life and the principal constituents of the self. The course will conclude with a study of attention and association. Occasional essays will be prescribed. Three hours weekly throughout the first term of the session.

1B. Formal Logic.—In the second term a course in Formal Logic and Fallacies. Text-book: S. H. Mellone, Introductory Text-Book of Logic. The course will embrace an outline of the general formal principles of valid reasoning, with frequent illustrations of their application to actual discussion. This will be followed by more detailed examination of the types of fallacious reasoning most commonly perpetrated in literature and daily life. Weekly exercises will be set and will form an important feature of the course. Three hours weekly.

Honours. Second Year.

2A. Introduction to Philosophy.—Study of some easy pieces of typical philosophical literature such as Descartes' "Discourse on Method," Berkeley's "Dialogues," Plato's "Phædo," Spencer's "First Principles." Lecture notes upon the same and upon the general outlines of philosophy. This course is designed to start students upon the work of intelligent philoso-

phical reflection and will not in the first instance entail an undue amount of work on their part. It will be adapted to the needs of beginners in philosophy whether undergraduate or partial students.

One hour a week throughout the session.

2B. An Introduction to Psychophysics. — This course will form a supplement to 1A, for those students who desire to become acquainted with recent investigations of some elementary problems of Psychophysics. After a careful discussion of the various views regarding the localization of brain functions, the Weber-Fechner law will be investigated by the different psychophysical methods. The psychophysical theories of light sensations put forward by Helmholtz, Hering and others will be compared; and it is hoped that some experiments in reaction-time will be made. No text-book is prescribed, students being referred to different authors according to the problems investigated.

One hour a week throughout the session.

Ordinary. Third or Fourth Year.

3A. Moral Philosophy. — In the first term a course on the Outlines of Ethical Theory. The following topics—among others—will be treated of by means of short sets of lectures, study-notes, private reading, exercises, discussion, etc.:—the phenomena of the moral life in the individual and in the race; the postulates of ethical science; the relations of Ethics to the sciences, to Law, Politics, Education, etc.; theories of Conscience and the Moral Standard; ancient and modern conceptions of Moral Philosophy; the Ethics of Idealism and the Ethics of Evolution; the theory of Moral Progress.

3B. In the second term a course on the problems of Social Philosophy and Applied Ethics.

Short sets of lectures will be given upon the following topics: Ethics and the Sociological movement of recent years; Biological and Psychological theories of Society and of Social Progress; the Ethics of the Social Questions; the Duties and the Virtues; the Unity of the Moral Life; Moral Pathology; Moral Training; the Ethical Problem of the Present.

Mackenzie's Manual of Ethics will be used for purposes of class-room discussion, but the student will constantly be referred to the literature of the subjects treated, and to sources of independent investigation.

The course will be varied from year to year according to the needs of the subject and those of the students.

Four hours per week.

4A. General Course in Psychology, analytic and experimental.—An attempt will be made to indicate the most important topics of modern psychological inquiry and to illustrate and test some of the results reached by leading investigators. Among the problems to be discussed will be:—Attention, Association, Perception, Imagination, Memory, Perception of Time, Perception of Space and of external Reality, Theories of Instincts, Emotions and Will, Hypnotism and Subliminal Consciousness, Theories concerning the relation of Mind and Body.

4B. (Continued throughout the session.)

Books recommended: James, Principles of Psychology; Stout's Manual of Psychology, Ebbinghaus, Grundzüge der Psychologie, Murray's Introduction to Psychology, Strong's Why the Mind has a Body, Titchener's Manual of Experimental Psychology.

Four hours a week throughout the session.

5. Logic and Metaphysics.—The course in its earlier lectures will follow in the main the lines of Bosanquest's *Essentials of Logic* of which the student will be expected to make a special study. The attempt will first be made to determine the relation between the problem of Logic and that of Metaphysics, and the nature of the ultimate presuppositions of valid inference. The course will then discuss the morphology of knowledge, *i.e.*, the degree in which the various special forms of Proposition and Inference realise our ideal of systematic truth. This will be followed by a general examination of the more important inductive methods of experimental science, and a discussion of the ultimate principles implied in the experimental sciences, as in Mellone's *Introductory Text-book*, or Mill's *System of Logic*. Finally, the relation between existence, knowledge and truth will be dealt with in a general way. The course thus aims at being at once a continuation of the previous year's course in Logic and an introduction to the problems of Metaphysics and the theory of knowledge, which are pursued further in courses 10 and 13.

Four hours a week throughout the session.

Books of reference:—Bosanquet, Logic; Bradley, Principles of Logic; Mill, System of Logic; Jevons, Principles of Science; Venn, Empirical Logic; Taylor, Elements of Metaphysics.

6A. History of Modern Philosophy. **Ordinary.** **Fourth Year, and** **Honours.** **Third Year.**

First Term: From the Renaissance to Kant.

Fours hours a week.

6B. Second Term: From Kant to the Present Time.

Text-books recommended:—Falckenberg's History of Modern Philosophy; Höffding's History of Modern Philosophy (2 vols., translated by Meyer); Adamson's Development of Modern Philosophy.

Four hours a week.

7. A course in Greek Philosophy. This begins with the colonial period, during which philosophical activity was most energetic among the colonies of the Greeks in Asia Minor and Italy. It then passes on to the Athenian period, beginning about the middle of the fifth century, B.C., when Philosophy found a home in the greatest centre of intellectual life in the ancient world. A third period is then described, during which Philosophy extends its culture over ancient life by the spread of the great schools, especially the Stoical and the Epicurean, which arose towards the end of the fourth century, B.C. Students are expected to make an independent study of the fragments of one of the early philosophers, and to write an essay embodying the results of their study. **Honours.** **Third Year.**

Books of Reference:—Zeller, History of Greek Philosophy; Windelband, History of Ancient Philosophy; Burnet, Early Greek Philosophy; Ritter and Preller, Historia Philosophiæ Græcæ; E. Wallace, Outlines of the Philosophy of Aristotle.

Two hours weekly.

8. Plato and Aristotle. In this course it is expected that some work of each of these thinkers will be read.

Books prescribed for 1905-6 and 1906-7:—Plato, Philebus; Aristotle, Metaphysics, Bk. A. Two hours weekly.

Courses 7 and 8 will be given in alternate years.

9. The Philosophy of Kant.—Lectures, study notes, and discussions of the writings of Kant, with a study of Kant's influence upon philosophy. The various translations of Kant or of portions of Kant's writings will be used, with use of the German text where possible. Two hours weekly throughout the session.

Honours. Fourth Year.

10. Advanced Formal Logic.—This course will discuss the defects and limitations of the traditional Aristotelian Formal Logic, and the various extensions and modifications of it which have been proposed in modern times. Special difficulties in the traditional doctrines of Terms and Immediate Inferences will be dealt with on the lines of Keynes's *Studies in Formal Logic.* Types of formally valid reasoning concerning relations which cannot be reduced to syllogistic form will be examined and some attention will be paid to the peculiarities of reasoning from mathematically definite premises. An account will then be given of some leading attempts to extend the range of Formal Logic by extension rather than intension as its basis (Quantification of the Predicate, Jevons's Equational Logic), and the course will end with an elementary examination of the principles of the modern Algebra of Logic as created by Boole. Occasional exercises will be given.

One hour a week.

Books of reference recommended:—Boole, Laws of Thought; Jevons, Principles of Science and Studies in Deductive Logic; Keynes, Studies in Formal Logic; Venn, Symbolic Logic.

11. Psychological Seminary. For the investigation of special problems to be determined at the beginning of the session: or a course (with readings) in Comparative Psychology.

One or two hours weekly throughout the session.

12. Advanced Moral Philosophy. — Designed to meet the wants of students who have taken course 3 or who are otherwise competent to undertake the study of the more important works (Classical or Modern) upon the theory of morals, or to pursue the study of special questions in Ethics and Social Philosophy.

As a rule a careful study will be undertaken of the following works:—Aristotle's Ethics, Green's Prolegomena to Ethics, Sidgwick's Methods of Ethics, along with prescribed portions of writers like Spencer, Stephen, Martineau, and others. Special topics, however, (both in Theoretical and Applied Ethics) will also be prescribed for investigation and discussion, and the course will be varied from year to year to suit the needs and the capacities of students. It may occasionally be applied to suit the needs of advanced students in other depart-

ments, such as Classical or Modern Literature, Political Economy, Biology, History. Two hours weekly throughout the session.

13. Topics in Philosophy.—Independent and detailed study of such questions in philosophical science as may, from time to time, seem to require specialised treatment. Such topics as the following may be considered:

Systematic thinkers of the Seventeenth Century; the English Utilitarians; the Problem of Mind and Body in Modern Psychology and Philosophy; the Philosophy of Evolution. Two hours a week.

Graduate study and Seminary Work may be undertaken in connection with any of the more advanced of the above courses, *e.g.* Nos. 9, 10, 11, 12, 13. All such work, however, will as a rule depend upon the previous training of the student, and upon his capacity for original research under the personal guidance of members of the Department.

14. General Introduction to Philosophy.—During the winter 1905-6, a short series of public lectures similar to those of 1904-5 will again be given.

The lectures will be intended for persons inside and outside the University.

A printed sheet with detailed statements as to the matter of the Lectures will be issued at the beginning of the winter.

HONOUR COURSE IN MENTAL AND MORAL PHILOSOPHY.

The courses prescribed for Honour students in Philosophy are as follows:—

Second Year:—2A, 2B.
Third Year:—6A, 6B, 7, 8, 9.
Fourth Year:—10, 11, 12, 13.

DEPARTMENT OF HISTORY.

PROFESSOR:—CHARLES W. COLBY, M.A., PH.D.
LECTURER:—STEPHEN B. LEACOCK, B.A., PH.D.

1. The Main Epochs of European History. **Ordinary. First Year.**

Twenty-four lectures will be given on the leading aspects of Ancient, Mediæval and Modern History. The design of the course is less to present a mass of facts than to illustrate the chief features of racial, political and social pro-

gress. The sessional examination will be based mainly on the lectures and on the following text-book:—"European History," by G. B. Adams (Macmillan). The results of the examination will be counted under the head of English. Students will be required to present short essays on historical subjects at regular intervals. A few illustrated lectures may also be given if suitable hours can be found. The use of Putzger's Historischer Schul-Atlas is recommended.

One hour a week.

Ordinary. Second Year. 2. British History during the Seventeenth and Eighteenth Centuries. One of the main subjects to be considered in this course is colonial expansion, with special reference to North America. Two hours a week from September to the end of January.

N.B.—History 2 and Economics 1 together form a full course for Second Year students.

Ordinary. Third or Fourth Year. 3. The Mediæval and Modern History of Europe, 313-1648. This is a general course dealing with the historical development of European nations from the Edict of Milan to the Peace of Westphalia. Special attention will be devoted to institutions and movements. Topics for investigation will be frequently assigned, and students will write at least one thesis during the year. Readings to accompany each lecture are assigned in the syllabus for the course.

Four hours a week.

Honours. Third and Fourth Years. 4. The Renascence. During the session of 1905-1906, this course will be devoted to the study of Italian life and thought in the Fifteenth Century. While most stress will be laid on the intellectual aspects of the Renascence, social and political questions will also be considered. There will be general lectures, a detailed discussion of particular points and special reports by members of the class. One thesis may also be demanded. Four hours a week during the second half of the Session.

5. The Reformation—1563. Two hours a week. (Omitted in 1905-1906.)

6. The Catholic Revival and the Thirty Years' War. Two hours a week. (Omitted in 1905-6.)

Ordinary and Honours. Third and Fourth Years

7. The Political and Constitutional History of Europe since 1789. In this course narrative history will be subordinated to a description of the leading types of government which have been established in Europe since the beginning of the French Revolution. The constitutional changes of France, Germany, Italy, Switzerland and Austria-Hungary will be rendered most prominent.

Four hours a week.

8. English Constitutional History — 1307. Two hours a week. (Omitted in 1905-1906.)

Honours. Fourth Year.

9. The Political and Constitutional History of the United States. Four hours a week. (Omitted in 1905-1906.)

Texts.—Honour Students in History will be examined at the end of the Third Year on the following texts:—

Herodotus, VI—VIII, Macaulay's trans.; Thucydides, I, II, 1—65, VI, VII, Jowett's trans.; Plutarch, The Lives of Aristides, Themistocles, Pericles and Timoleon, Clough's trans.; Polybius, I, II, V, Shuckburgh's trans.; Livy, XXI-XXII, Church and Brodribb's trans.; Tacitus, Annals II, Germania, Vita Agricolæ, Church and Brodribb's trans.

Honour students in History will be examined at the end of the Fourth Year on the following texts:—

Clarendon, History of the Rebellion, Book XI; Gibbon, Decline and Fall, chaps. XLIV, L, LI, LXVI; Burke, Reflections on the French Revolution; Macaulay, History of England, chap. III; Bagehot, The English Constitution; Stubbs, Select Charters, Introduction; Captain Mahan, The Influence of Sea Power on History; Langlois et Seignobos, Introduction aux Etudes Historiques, trans. G. G. Berry; Bryce, The American Commonwealth, Vol. I; Parkman, Montcalm and Wolfe.

Summer Readings.—All students in History are expected to follow a course of Summer Readings as a preparation for the work of the ensuing session. Special programmes will be drafted with a view to individual needs.

Honour Courses in History and Economics.

A combined course for Honours in History and Economics is now offered, with a choice between studies (A) chiefly in history and politics, and (B) chiefly in economics and politics.

The courses of lectures prescribed for Honour Students are as follows:—

A. 3rd Year.—History, 3, 4, 7; Economics and Political Science, 2, 7.
4th Year.—History, 4, 7; Economics and Political Science, 5*, 8, 9*.

B. (See page 128.)

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE.

PROFESSOR:—A. W. FLUX, M.A.
LECTURER:—STEPHEN B. LEACOCK, B.A., PH.D.

Ordinary.
Second Year.

1. DESCRIPTIVE ECONOMICS.

This course will be prefaced by a short study of Commercial Geography, covering its leading principles, and devoting particular attention to the resources, industrial and commercial, of the British Empire.

Following this, the most important features of modern industrial and commercial organization will be studied, including trade and transportation, the great wholesale markets, joint stock companies, monetary and banking systems, trade unions and wage-systems, and government relations to industry, with the purpose of preparing the student for the study of economic and political theory.

Text-book in Commercial Geography:—Gonner, Commercial Geography. Atlas of Commercial Geography (Pitt Press Series). For Reference:—Chisholm, Handbook of Commercial Geography.

Readings bearing on the topics of the lectures will be given. Ashley's British Industries and Hatfield's Lectures on Commerce will be found especially useful.

Two hours per week from September till end of January, three hours per week in February and March. This course is intended to be taken with History 2, making up thus a full course.

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* For Economics and Political Science 5 or 9, may be substituted History of Philosophy (half course).

2. Elements of Economics. **Ordinary. Third or Fourth Year.**

The scope and method of Economic Science: the theory of value; the distribution of wealth, including the theories of rent, wages, interest and profits; the theory of money; international trade; principles of taxation.

Four hours per week throughout the session.

Recommended for preliminary reading: — F. A. Walker, First Lessons in Political Economy.

Other books recommended: — Flux, Economic Principles; Keynes, Scope and Method of Political Economy; F. A. Walker, Political Economy (Advanced Course); Hadley, Economics; Marshall, Principles of Economics; J. S. Mill, Principles of Political Economy, Book III; Jevons, Money and the Mechanism of Exchange; Bastable, Theory of International Trade; Sidgwick, Principles of Political Economy, Book III.

Of the following courses, numbered 3, 4 and 5, one or more, as required, will be delivered in 1905-6.

3. History of Economic Theory. **Honours. Fourth Year.**

The development of economic doctrine will be traced, especially in relation to the special contributions of individual writers of great prominence. A closer examination of economic theories treated of in the preceding course will be made.

Text-books:—Price, Short History of Political Economy in England; Cohn, History of Political Economy.

Works of Reference:—Cossa, Introduction to the Study of Political Economy; Ingram, History of Political Economy; Sewell, The Theory of Value before Adam Smith; Cannan, History of the Theories of Production and Distribution; together with the treatises of the principal classical economists.

Four hours per week during the first half of the Session.

4. (*a*) Currency, Banking and Trade.—Nature and functions of Money, the currency systems of the leading nations, index-numbers and their interpretation, banks and their functions, commercial crises, foreign exchanges, bi-metallism. A study of trade organization in connection with the circulation of goods will form part of the course. **Honours. Fourth Year.**

Text-books:—Nicholson, Money and Monetary Problems; Scott, Money and Banking; Dunbar, Theory and History of Banking.

Works of Reference:—Horace White, Money and Banking; Bagehot, Lombard Streeet; Breckenridge, Canadian Banking System; Macleod, Theory and Practice of Banking; Laughlin, The Principles of Money; Magraff, International Exchange; Laughlin, Credit; Jevons, Investigations in Currency and Finance.

Four hours per week during the second half of the Session.

(*b*) The Theory of Distribution. (Omitted in 1905-06.)

Honours. Third or Fourth Year.

5. (*a*) History of Industry and Commerce.

The development of industry, agriculture, transportation and commerce from the middle of the eighteenth century: commercial policy and its changes; colonial development; industrial legislation and the growth of associative effort.

Two hours per week throughout the Session.

Text-book:—Gibbins, Economic and Industrial Progress.

Works of Reference:—Toynbee, The Industrial Revolution; Bærnreither, English Associations of Working Men; Cunningham, Growth of English Industry and Commerce in Modern Times, Part II; Webb, History of Trade Unionism; Porter, Progress of the Nation.

(*b*) Public Finance. (Omitted in 1905-6.)

6. Seminary in Economics and Political Science.

Candidates for Honours in History and Economics (Course B), will attend the economic seminary. A more careful study of the writings of leading economists and publicists will be made than is possible in connection with the ordinary courses of lectures. Reports will be prepared by the members of the class, and methods of investigation illustrated practically. The extra examination papers referred to below (p. 128) will have reference, in part, to the work of the Seminary.

The meetings of the Seminary will be weekly.

Ordinary. Third or Fourth Year.

7. Elements of Politics.

The introductory part of the course will deal with the general principles of Political Science, the nature of the State and the different theories of its purpose and origin.

The main work of the year will consist of a study of comparative national government. The constitutions, govern-

ments and political parties of Great Britain and the United States will be treated in detail. The governmental systems of continental Europe will also be examined.

Four hours per week throughout the Session.

Text-book:—The State (Woodrow Wilson).

Books of Reference:—Sidgwick, Elements of Politics; Burgess, Political Science and Constitutional Law; Anson, Law and Custom of the Constitution; Bryce, American Commonwealth; Bodley, France; Lowell, Governments and Parties in Continental Europe.

8. Legislative Policy. **Honours. Fourth Year.**

This course will consist of a detailed examination of the functions exercised by the State in industrial control. Modern legislation and legislative theories will be discussed in reference to their economic effects.

Four hours per week during the first half of the Session.

Books of Reference:—Leroy Beaulieu, The Modern State; Sidgwick, Elements of Politics, chaps. IV, IX, X; Farrar, The State in Relation to Trade; Jevons, The State in Relation to Labour; Frankenstein, Der Arbeiterschutz, seine Theorie und Politik.

9. (*a*) History of Political Theory. (Omitted in 1905-6.) **Honours. Fourth Year.**
(*b*) Tariff Legislation.

The course will comprise a study of the rise and development of the protective system, together with its economic and political effects.

Four hours per week during the second half of the Session.

Works of Reference:—Dowell, History of Taxation and Taxes in England; Taussig, Tariff History of the United States; Montgredien, History of the Free Trade Movement; Chomley, Protection in Canada and Australasia; Dawson, Protection in Germany; Ashley, Modern Tariff History; Grunzel, System der Handelspolitik.

Summer Readings.—Students who intend to follow the Honour course in Economics and Political Science are advised to pursue a course of preparatory readings during the summer vacation preceding the commencement of that course.

Special programmes will be drafted with a view to individual needs.

During the summer vacation following the Third Year they are advised to study the following books:—

Adam Smith, Wealth of Nations; Ricardo, Principles of Political Economy and Taxation; J. S. Mill, Principles of Political Economy; Sidgwick, Elements of Politics; Leroy Beaulieu, The Modern State. Students are strongly recommended to obtain the advice of the members of the Department as to their summer readings.

HONOUR COURSES.

Students who are candidates for Honours in History and Economics, and select Course B (see p. 124), will take the following courses of lectures:—

Third Year:—History, 3.
Economics and Political Science, 2, 5, 6, 7.

Fourth Year:—History, 4, 7.
Economics and Political Science, 3, 4, 5, 6, 8, 9.

The examination of honour students on courses 2 and 7 will include an extra paper, as well as those set to the rest of these classes.

Constitutional Law.

PROFESSOR:—F. P. WALTON (DEAN FACULTY OF LAW).

The Constitutional Law of Canada will be treated in the following order:—1. Canadian Constitutional History prior to Confederation. 2. The British North America Act, and the leading cases under it which illustrate the respective powers of the Dominion and the Provinces. 3. The fundamentals of English Constitutional Government which form the basis of the Canadian Constitution. 4. The Cabinet System. 5. The difference between English and French practice as to responsibility of officials.

Two hours a week.

Roman Law.

LECTURER:—F. P. WALTON (DEAN OF THE FACULTY OF LAW).

A Course is offered in Roman Law, open to Third and Fourth Year students in Arts, and qualifying as an option for the B.A. degree. For details, see Faculty of Law, *post.*

DEPARTMENT OF MATHEMATICS.

PROFESSOR:—J. HARKNESS, M.A.
ASSOCIATE PROFESSOR:—H. M. TORY, M.A., D.Sc.
ASSISTANT PROFESSOR:—MURRAY MACNEILL, M.A.
LECTURER:—A. S. EVE, M.A.

1. PLANE AND SOLID GEOMETRY. — The equivalent of Books IV, VI and XI of Euclid, with supplementary matter. Hall and Stevens' Euclid.
Algebra. — Hall and Knight's Elementary Algebra (omitting chapters 40-43 inclusive), or the same subject matter in similar text books.
Trigonometry.—Hall and Knight's Elementary Trigonometry; the Elements of Spherical Trigonometry. Nature and use of Logarithms.
Four hours per week. **Ordinary. First Year.**

2. Lachlan's Modern pure Geometry; Hall and Knight's Advanced Algebra; Burnside and Panton's Theory of Equations (selected course); Trigonometry, as in ordinary course; Higher Trigonometry, Lock.
Four hours per week. **Advanced Sections. First Year.**

3. GEOMETRY.—(*a*) Solid Geometry, continuation of the First Year; (*b*) Geometrical Conic Sections; Wilson's Solid Geometry and Geometrical Conics.
Algebra.—Exponential and Logarithmic series; Undetermined Coefficients; Partial Fractions; Elementary Theory of Probabilities; Elements of Determinants; Graphic Methods.
Three hours per week. **Ordinary. Second Year.**

4. ANALYTICAL GEOMETRY.—Smith's Conic Sections.
DIFFERENTIAL AND INTEGRAL CALCULUS.—Lamb's Infinitesimal Calculus.
Four hours per week. **Honours. Second Year.**

5. Elementary Analytical Geometry; Elementary parts of the Differential and Integral Calculus; Simple Differential Equations.
Four hours per week. **Ordinary. Third or Fourth Year.**

6. Astronomy. — This course is intended to give a general account of the main facts of Astronomy, and the methods by which these facts are obtained. The lectures will be illustrated, and occasional evenings will be given to work in the observatory.
Two hours per week.

Honours. Third Year.

7. Selected topics in Differential and Integral Calculus.
8. Differential Equations.
9. Geometry of Three Dimensions.
10. Vector Analysis.

In addition students reading for Honours will be required to take course 4, and selected topics from course 5, under Physics, see page 133.

Honours. Fourth Year.

The courses given will be selected from the following:—

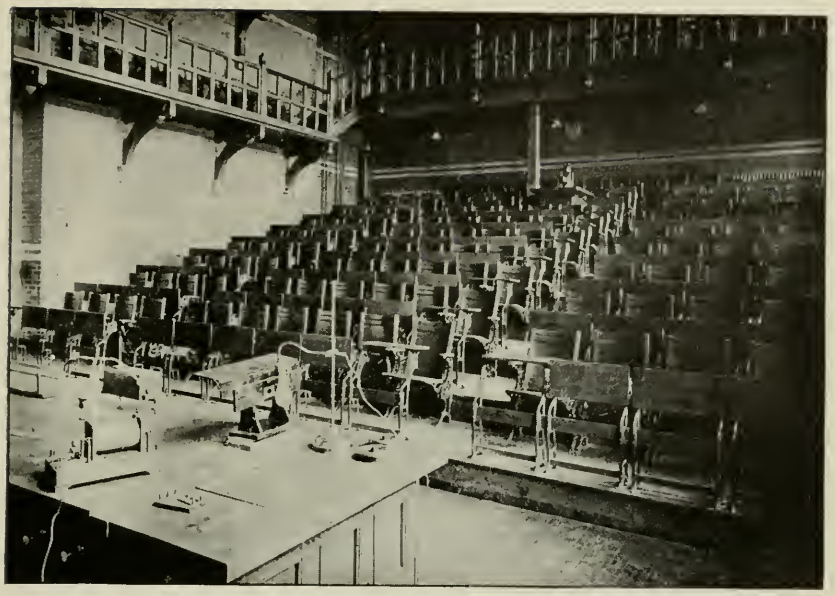
11. Introduction to the Theory of Functions.
12. Elliptic Functions.
13. Lectures in connection with Scott's Modern Analytic Geometry and the early chapters of Salmon's Higher Plane Curves.
14. Lectures on Modern Geometry, based on Reye's Geometry of Position.

In addition students reading for Honours will be required to take the seminary topics of course 5, under Physics, (see page 133).

15. A Special Course for Graduates and Advanced Students, to be given by Dr. Tory during the Session 1905-1906.

Applied Mathematics.—The object of the course will be to give the student an introduction to those parts of Mathematics which are indispensable for the study of Advanced Physics and allied subjects. The course will be mainly concerned with the partial differential equations which occur in Mathematical Physics. Among the topics treated will be the following: — The Mathematical Theories of Attraction and Potential, with their applications; Fourier's Series; Zonal and Spherical Harmonics and Bessel's Functions.

The applications to physical problems will be illustrated by numerous examples.



Macdonald Physics Building.—A Lecture Theatre.

Macdonald Physics Building.—An Elementary Electrical Laboratory.

HONOUR COURSE IN MATHEMATICS.

The courses of Lectures prescribed for Honour students are as follows:—

Second Year.—Mathematics, 6.
Third Year.—Mathematics, 7, 8, 9, 10.
Physics, 3, 4, 5 (in part).
Fourth Year.—Mathematics, courses selected from 11, 12, 13, 14, 15.
Physics, 5.

DEPARTMENT OF PHYSICS.

PROFESSORS:—JOHN COX, M.A., LL.D.
E. RUTHERFORD, M.A., D.Sc., F.R.S.

ASSISTANT PROFESSOR:—HOWARD T. BARNES, D.Sc.

DEMONSTRATORS:—R. K. McCLUNG, B.A. (Cantab.), M.A. *Senior Demonstrator.*
H. L. BRONSON, PH.D. (Yale).
E. W. SHELDON, B.A.
G. H. COLE, B.Sc.

Ordinary. First Year.

1. PHYSICS.—This course has two objects: (1) to give the minimum acquaintance with Physical Science requisite for a liberal education to those whose studies will be mainly literary; (2) to be introductory to the courses in Chemistry and other branches of Natural Science, and to the more detailed courses in Physics in the Third and Fourth Years. Only the most important principles in each branch of the subject will be treated, as far as possible, with reference to their historical development and mutual relations; and they will receive concrete illustration in the study of the principal instruments in daily use in the laboratory. Two illustrated lectures will be given per week. During the session each student will be required to attend in the laboratory eight times, and make measurements involving the use of the following instruments: —*Balance, Pendulum, Barometer, Thermometer, Sonometer, Telescope or Microscope, Tangent Galvanometer, Wheatstone's Bridge.*

Outline of Syllabus. The scope and method of Science, Primary Phenomena ("States and Properties of Matter"), Motion, Velocity, Acceleration, Laws of Motion, Momentum, Energy, Work. The Parallelogram Law for Velocities and Forces, Equilibrium and the Simple Machines. Uniform circular motion, Vibration, the Pendulum, Fluid Pressure, the Barometer, Specific Gravity. Summary of *Mechanics,* indicating the principle of the Conservation of Energy. ,

The missing Energy traced in (1) *Sound.* Nature of wave Motion. Intensity, Pitch and Quality of Musical Notes. The stretched String and Organ Pipe. Resonance.

(2) *Heat.* Temperature and the Thermometer. The Calorimeter, Fusion and Vaporisation. Laws of Boyle and Gay-Lussac. The Mechanical Equivalent. Application of Conduction, Convection and Radiation to common problems of Climate, Ventilation, etc.

(3) *Light.* Reflection, Refraction, the Spherical Mirror, Prism, Lens, Microscope, Telescope, Spectroscope, Polariscope. Principle of Interference and sketch of the Undulatory Theory.

(4) *Electricity and Magnetism.* The Electrophorus, the Modern Induction Machine, the Condenser. Coulomb's Law of Force. The idea of Potential. The Quadrant, Electrometer. Atmospheric Electricity. Magnetic Pole, Moment, Field and Law of Force. The Compass and Terrestrial Magnetism. Effects of Current. The Voltameter and Storage Cell. The Galvanometer. Heating Effects. Simple Batteries. Ohm's Law. Units and Measurement of Current Resistance, Electromotive Force. Mutual Mechanical Effects of Conductors and Magnetic Fields. Principle of the Electric Motor. The Electro-magnet. Induction of Currents, and Principle of the Dynamo. Applications to Telegraph, Telephone, Lighting, and supply of Power.

Conclusion.—Restatement of Principle of Conservation of Energy in complete form. Dissipation of Energy.

Two hours a week. *Text-book*:—Carhart and Chute.

Third Year. 2. EXPERIMENTAL PHYSICS.—(*First Course.*)—Laws of Energy, Sound, Light and Heat. *Text-books*:—Deschanel, Part IV, or Ganot or Jones; Heat (Wright's, Longmans).

Lectures fully illustrated. Two hours a week; with Laboratory Course, three hours a week.
Laboratory Manuals.—Tory and Pitcher; Chandler.

Sound.—Velocity of Sound; Determination of Rates of vibration of Tuning Forks; Resonance; Laws of vibration of strings.

Light.—Photometry; Laws of Reflection and Refraction; Indices of Refraction; Focal Lengths and Magnifying Powers of Mirrors, Lenses, Telescopes and Microscopes; the Sextant, Spectroscope, Spectrometer, Diffraction Grating, Optical Bench and Polariscopes.

Heat.—Construction and Calibration of Thermometers; Melting and Boiling Points; Air Thermometer; Expansion of solids, liquids and gases; Calorimetry; Specific and Latent Heats; Laws of Vapour Pressure; Radiation; the Mechanical Equivalent of Heat.

3. Experimental Physics.—(*Second Course.*) — Electricity and Magnetism. *Text-book*:—S. P. Thompson. Lectures fully illustrated. Two hours a week; with Laboratory Course, three hours a week. **Fourth Year.**
Laboratory Manual.—Tory and Pitcher.

Measurement of Pole Strength and Moment of a Magnet; the Magnetic Field; Methods of Deflection and Oscillations; Comparison of moments and determination of elements of Earth's magnetism. Frictional Electricity. Current Electricity — Complete course of measurements of Current Strength, Resistance and Electromotive Force; Calibration of Galvanometers; the Electro-dynamometer; Comparison of Galvanometers; the Electrometer; Comparison of Condensers; Electromagnetic Induction; Discharge of Electricity through Gases; Radio-activity; Electrical Waves.

N.B.—For advanced Courses intended for Electrical Engineering Students and Graduates pursuing the study of Physics, see Calendar, Faculty of Applied Science.

4. Mechanics and Hydrostatics.—Two hours a week. **Honour Courses. Third and Fourth Years.**

5. Analytical Statics; Dynamics of a Particle; Rigid Dynamics; Hydromechanics.

6. Advanced Courses in Heat, Optics and Electricity. A short course in Physical Chemistry.

HONOUR COURSE IN PHYSICS.

The Courses of Lectures prescribed for Honour Students in Physics are as follows:—

Third Year.—Physics, 3, 4, 5 (in part).
Mathematics, 7, 8, 9, 10.

Fourth Year.—Physics, 5, 6.
Mathematical courses selected from 11, 12, 13, 14.

7. Special courses for Graduates and Advanced Students, selected from the following, will be given during the Session 1905-06, at hours to be arranged.
By Prof. Cox.—The relation of Optics and Electricity.
By Prof. Rutherford.—The processes occurring in Radio-active Elements.
By Dr. Barnes.—On Electrical Standards.
By Dr. Tory.—On Applied Mathematics. (See page 130, course 15.)

DEPARTMENT OF CHEMISTRY.

PROFESSORS:—B. J. HARRINGTON, M.A., PH.D., LL.D.; J. WALLACE WALKER, M.A., PH.D
ASSISTANT PROFESSOR:—NEVIL NORTON EVANS, M.A.Sc.
LECTURER:—A. DOUGLAS MCINTOSH, M.A.
DEMONSTRATORS:—W. S. HUTCHINSON, M.Sc.; W. LLOYD LODGE, M.A.; F. M. G. JOHNSON, B.Sc.; S. J. LLOYD, B.Sc.; R. W. LORD, B.Sc.
LECTURE ASSISTANT:—M. VIOLETTE DOVER, B.A.,M.Sc.

Second Year.

1. GENERAL CHEMISTRY.—A Course of lectures on Elementary Chemical Theory, and on the principal elements and their compounds. The lectures are fully illustrated by means of experiments.

Text-book: — Holleman's Text-book of Inorganic Chemistry (Translation by Cooper).

Three hours a week.

ELEMENTARY PRACTICAL CHEMISTRY. — This course is compulsory for all undergraduates taking the above course of lectures. The work includes experiments illustrative of the Laws of Chemical combination, the Preparation of Pure Chemical Compounds, and elemen-

tary Qualitative Analysis.
Six hours a week.

2. Inorganic Chemistry.—A course on special departments of Inorganic Chemistry. Third Year.
One hour a week.

3. Elementary Organic Chemistry.—An elementary course of lectures on Organic Chemistry open to Biological Students and compulsory for students intending to take the advanced course on Organic Chemistry in the Fourth Year.
Text-book. — Holleman's Text-book of Organic Chemistry.
One hour a week.

4. Advanced Practical Chemistry.—Laboratory practice in methods of gravimetric, volumetric and Quantitative Analysis, during the first term, and preparation of simple Organic Substances in the second term.
Text-books.— Talbot's Quantitative Chemical Analysis and Holleman's Laboratory Manual of Organic Chemistry.
Six hours a week.

Note.—Extra reading and laboratory work will be required from Honour Students.

5. Organic Chemistry.—A systematic course of lectures on Organic Chemistry, including the Analysis of Organic Substances, Calculation of Formulæ, Determination of Molecular Weights, Polymerism, Isomerism, etc., followed by a discussion of the more important derivatives of the Aliphatic and Aromatic Series of Compounds. Fourth Year.
Two hours a week.

6. Practical Organic Chemistry. — A complete course on the preparation and analysis of Organic Substances, with determinations of Molecular Weights, etc.

7. Physical Chemistry.—The lectures on Physical Chemistry are divided into two parts. In the first term they include a study of such physical properties of gases, liquids, and solids as are known to depend upon their Chemical Constitution; Thermo-chemistry; and the Law of Mass Action. The second term is devoted to Electro-chemistry. The lectures will be based upon the applications of the gaseous laws to solutions.
Two hours a week.

8. Practical Physical Chemistry. — Laboratory work will include the various methods of determining the Molecular Weights of gases and of substances in solution, accurate measurement of Densities, Refractive Indices, Surface Tensions and Specific Rotations; also examples of Chemical Statics and Kinetics, and Electro-chemical measurements.

9. Mineral Analysis.—A course of laboratory work comprising advanced quantitative analysis and investigation of the constitution of mineral species.

HONOUR COURSE IN CHEMISTRY.

The courses of lectures prescribed for Honour Students are as follows:—

Third Year.—Chemistry, 2, 3, 4; Physics, 2; Mechanics, 4; and a half-course in Calculus, or Biology, or Geology, or Mineralogy.

Fourth Year.—Chemistry, 5, 6, 7, 8 or 7, 8, 9; Physics, 3.

Mineralogy.

Professor:—B. J. Harrington, M.A., Ph.D., LL.D.
Demonstrator:—Richard Graham, B.A.

Honours. Third Year. 1. Mineralogy.—Lectures and demonstrations illustrated by models and specimens in the Peter Redpath Museum and the Macdonald Chemistry and Mining Building. Among the subjects discussed are: Crystallography; physical properties of minerals dependent upon light, electricity, state of aggregation, etc.; chemical composition, calculation of mineral formulæ, quantivalent ratios, etc.; principles of classification, description of species.
Two hours a week.

Fourth Year. 2. Mineralogy (In continuation of No. 1). — Description of species, particular attention being paid to those which are important as rock constituents and to the economic minerals of Canada.
First term, two hours a week.

Third Year. 3. Determinative Mineralogy. — Laboratory practice in blow-pipe analysis and its application to the determination of mineral species. This work is carried on in the laboratory provided for the purpose in the Chemistry and Mining Building.
Thursday, 2 to 5 p.m.

DEPARTMENT OF GEOLOGY.

PROFESSOR:—FRANK D. ADAMS, D.Sc., PH.D.
DEMONSTRATORS:— ALFRED W. G. WILSON, M.A., PH.D
J. AUSTEN BANCROFT, B.A.

Ordinary. Third Year.

1. General Geology.—The lectures will embrace a general survey of the whole field of Geology, and will be introduced by a short course in Mineralogy. Especial attention will be devoted to Dynamical Geology and to Historical Geology, including a description of the fauna and flora of the earth during the successive periods of its past history.

The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern views. There will be an excursion every Saturday until the snow falls, after which the excursion will be replaced by a demonstration in the Museum.

Text-book:—Scott, An Introduction to Geology.

Books of Reference:—Dawson, Hand-Book of Geology; Dana, Manual of Geology.

Three hours a week throughout the year, with additional excursions and demonstrations as above stated.

Honours. Third Year.

Honour Course in Geology and Mineralogy.

(For Mineralogical portion of this course, see p. 136.)

In the Third Year, students pursuing the Honour Course will take the Ordinary work (General Geology, 1).

Honours. Fourth Year.

In the Fourth Year they will take the following courses:— 2, 3, 4, 5, 6 and 7.

2. Petrography.—The modern methods of study employed in Petrography are first described, and the classification and description of rocks are then taken up.

One lecture a week during the first term. One afternoon a week throughout the year will be devoted to special microscopical work in the Petrographical Laboratory.

Text-book:—Harker, Petrology for Students.

Books of Reference:—Rosenbusch, Mikroskopische Physiographie, and Rutley, Rock-forming Minerals.

3. A. Palæontology. — An extension of the Palæontology of Course 1, with special studies of some of the more important groups of fossils.

One lecture a week during the second term and one demonstration a week, with special studies in the Peter Redpath Museum.

Books of Reference:—Nicholson and Lydekker, Manual of Palæontology; Zittel & Eastman, Text-Book of Palæontology.

or

3. B. Physiography. — A description of Land Forms with reference to their origin, classification, drainage, development, climatic and human controls.

The physical features of Canada will be described during the latter half of the course.

The course will consist of lectures, demonstrations, and laboratory work, and will be illustrated by maps, models, and lantern slides.

Two hours a week during the first term.

Books of Reference: — Davis, Physical Geography; Mill, The International Geography.

4. Ore Deposits, Economic Geology and Practical Geology. —The nature, mode of occurrence and classification of Ore Deposits will first be taken up. A series of typical occurrences will then be described and their origin discussed—the more important non-metallic materials—*e.g.*, Fuels, Clay, Abrasive Materials, Building Stones, etc., will be similarly treated, as well as questions of water supply, Artesian Wells, etc. The methods employed in carrying out Geological and Magnetic Surveys and in constructing Geological Sections will then be taken up with special studies in folding, faulting, etc.

Four lectures a week throughout the Second Term.

The course will be illustrated by maps, models, lantern slides and specimens.

Text-books:—Geikie, Outlines of Field Geology; Kemp, Ore Deposits of the United States and Canada; Philips and Louis, A Treatise on Ore Deposits.

Books of Reference:—The Monographs of the U. S. Geological Survey, and the Reports of the Geological Survey of Canada.

5. Canadian Geology.—A general description of the Geology and Mineral Resources of the Dominion.

One lecture a week during the first term.

Text-book:—Dawson, Hand-book of Geology.

Books of Reference:—The Reports of the Geological Survey of Canada.

6. Geological Colloquium.—A discussion each week of some Geological topic, references to the literature of which have been given by the Professor in the week preceding. The course is intended to give students some acquaintance with Geological literature, as well as a wider knowledge of the great principles which underlie the Science.

One hour a week in second term.

7. Geological Survey.—Candidates for Honours in the Fourth Year will also undertake, under the direction of the Demonstrator in Geology, a Geological Survey of some suitable area selected for that purpose. This Survey will occupy two weeks, and will be made either at the close of the Third Year or immediately before the opening of the regular work of the Fourth Year, as may be arranged by the Professor of Geology. The preparation of a geological map of the surveyed area, the examination of the specimens collected, and the writing of a detailed report upon the area, will form part of the work of the Fourth Year.

N.B.—A large amount of additional private reading will also be required of Candidates for Honours.

Students taking any of these courses are entitled to tickets of admission to the Museum of the Natural History Society of Montreal.

HONOUR COURSE IN GEOLOGY AND MINERALOGY.

The courses of Lectures prescribed for Honour Students are as follows:—

Third Year.—Geology (ordinary of Third Year).
Mineralogy, 1, 3.
Zoology (ordinary of Third Year).
Chemistry (of Second or Third Year).

Fourth Year. — Geology (Advanced) — Lectures, Lab. work, Field work, Colloquium, Reading.
Mineralogy (Advanced).
Botany, one-half course, "Botany 3A."

DEPARTMENT OF BOTANY.

PROFESSOR:—D. P. PENHALLOW, D.Sc.
ASSISTANT PROFESSOR:—C. M. DERICK, M.A.

Ordinary. Second Year.

1. ELEMENTARY BIOLOGY.—Second half session. A course in the general morphology of plants embracing a discussion of the general principles of morphology and classification, respiration, photosynthesis, nutrition, reproduction, symbiosis and adaptations, as also the relations of plants in geological time. These studies will be illustrated by means of special types taken from the principal groups.

This course is designed with special reference to those who may not be able to carry such work beyond the limits of an elementary course, where it will form the basis for more specialized work in the Third and Fourth Years.

Two lectures and two laboratory periods each week.

For the first half of this course, see Zoology 1A, page 142.

Ordinary. Third Year.

2. SPECIAL MORPHOLOGY.—This course is designed to give a comprehensive knowledge of plant structures and relationships. The principles of development will be illustrated by type studies which may also serve as the basis of more special work in Bacteriology, Physiology, Ecology, or Palæobotany. It comprises:—

(*a*) *First Half-Session.*—During the autumn term, attention will be directed to a study of the general histology of the plant, with special reference to the seed plants and as a basis for the more advanced work of the Fourth Year, to differential reactions, methods of staining, imbedding, section cutting and general technique.

This course will be especially adapted to chemists as applied to a study of food adulterants, etc.; to those who are intending to follow a medical course, as a preparation for animal histology, and it will be required of all who elect the course in the Fourth Year.

The course presupposes familiarity with the optics of the microscope as given in Physics (3) of the Second Year.

(*b*) *Second Half-Session.*—Critical studies of the Thallophyta by means of selected types designed to illustrate the origin of organs, the origin and development of sex, the division of labour and the general laws of development.

Botanical Laboratory.

In the Zoological Laboratories.

Two lectures and two laboratory periods each week throughout the session.

3. Special Morphology. — Ordinary. Fourth Year.

(*a*) The complete study of a selected series of types, illustrating the structure, origin and relationships of the Bryophytes, and Pteridophytes.*

(*b*) The special morphology of the Seed Plants as represented by types illustrative of the principal groups, with special reference to relationship, development and adaptations.

Students entering upon this course will be required to present qualifications equivalent to the course of the Third Year.

Two lectures and two laboratory periods each week throughout the session.

For the work of the Third and Fourth Years, each student will be required to provide himself with a laboratory drawing book of specified form, and with necessary pencils, slides and cover glasses.

4. Systematic Botany. — A special course embracing herbarium work and the systematic study of the seed plants with reference to the determination of species, their environment and mutual relations. These studies will be prosecuted with special reference to a field knowledge of the ferns and flowering plants in the neighbourhood of Montreal. Ordinary. Fourth Year.

This course is designed to complete and round out the study of the higher plants as given in the courses on Special Morphology (2 and 3). Students specializing in Botany will be required to follow this as part of the ordinary course of the Fourth Year. The course is also open to teachers of schools and to others who may have gained a knowledge equivalent to that represented by Gray's Structural Botany.

Two laboratory periods each week throughout the session, with field days as may be arranged for.

B.A. Honour Course in Biology.

5. Candidates for Honours in the Third and Fourth Years will, in addition to the ordinary work in Botany of each year, take a special course of reading under the direction of the professor, and write weekly themes upon assigned topics. Honours. Third and Fourth Years.

* Students taking Honours in Geology and Mineralogy will also take Botany, 3 (a) during the first half of the session.

B.Sc. Course.

Ordinary. Third Year.

6. Students proceeding to the degree of B.Sc. will be required to take the ordinary course of the Third Year Arts, (2) and, if specializing in Botany, also the Honour course in that subject for that year.

Two lectures and two laboratory periods each week throughout the session.

Fourth Year.

During the Fourth Year, students proceeding to the degree of B.Sc. will be required to pursue special studies in extension of the work of the Third Year Arts, (3), in accordance with such plan as may be adopted by the B.Sc. Committee at the time of his entrance upon that year.

DEPARTMENT OF ZOOLOGY.

Professor:—E. W. MacBride, M.A., D.Sc.
Lecturer:—J. Stafford, M.A., Ph.D.
Demonstrator:—J. C. Simpson.

1A. Animal Biology.

Ordinary. Second Year.

This course consists of a careful study of the laws of Biology as illustrated by a selected series of types. Special stress is laid on the elements of Vertebrate Anatomy and Physiology, to the study of which most of the time is devoted. The types dealt with are Amœba, Paramœcium, Hydra, Lumbricus, Scyllium, Rana.

This course along with the corresponding course in Botany constitutes the course in general Biology. In lieu of Botany, however, 1B can be taken by students taking the combined six-year courses in Arts and Medicine leading to the degrees of B.A. and M.D. and of B.Sc. and M.D., provided that in this case the Botany required for Medical students is taken in the Autumn term.

Two lectures and two demonstrations a week during the first half of the Session.

1B. Continuation course in Animal Biology.

This course comprises a further study of Vertebrate Anatomy including a detailed study of the tissues. The type selected is the Rabbit of which the Osteology and gross anatomy are first studied and then the histology of the tissues. The practical work includes instruction in the staining and mounting of sections.

Two lectures and two demonstrations a week during the second half of the Session.

Honours. Second Year.

1C. Animal Physiology.

This course includes a study of the functional activities of Vertebrate Animals and is illustrated by some elementary demonstrations. Two lectures and one demonstration a week during the second half of the Session.

This course is to be taken by those students who intend to qualify for the Ontario Specialists' Certificate in Biology. It is recommended to all who intend to proceed to Honours in Biology.

Ordinary. Third or Fourth Year.

2. General Zoology.

This course consists of a study of the principal classes of animals, special attention being given to the Invertebrata. Fossil Invertebrata are studied along with the living types. Two lectures and two demonstrations a week throughout the Session.

For this course a study of the text-book, Shipley and MacBride's Zoology, is required.

Continuation Courses. Fourth Year.

3A. General Embryology.

This course comprises a study of the typical form of development and its principal modifications in every class in the animal kingdom.

Two lectures and two demonstrations a week throughout the Session.

Text-book for Reference: — Korschelt and Heider, Comparative Embryology.

3B. Special Zoology.

This course includes:—

(*a*) A special study of parasitic animals and their relation to disease during the first term.

(*b*) A comparative study of the osteology and myology of Vertebra during the second term.

Two lectures and two demonstrations a week throughout the session.

Students desiring to continue the study of Zoology during the Fourth Year may take either of the above courses. 3B may be taken as a Third Year subject by students taking the six-year course in Arts and Medicine leading to the degrees of B.Sc. and M.D.

Special Course in Embryology for Medical Students.

4. A special course in Vertebrate Embryology, consisting of 8 lectures and 8 demonstrations, is given during the first half of the Medical Spring term (latter half of April and beginning of May) for Medical students, but the course is open also to students in Arts who have taken at least the course 1A.

Summer Course.

Summer Course.

5. A special course in Elementary Biology covering the same ground as 1A is given during the month of May and the beginning of June. This course is accepted by the Faculties of Arts and Medicine as equivalent to 1A.

Honours in Biology.

Honours. Second and Third Year.

Students proceeding to Honours in Biology shall take Chemistry and Biology in the Second Year, and shall, during the Third Year (in addition to the work prescribed by the Professor of Botany), take the courses 2A and 1B. They shall, in addition, pursue the study of Darwin's "Origin of Species," under the supervision of the Professor for one hour a week during the first term (in addition to the work required of ordinary students), and two lectures and two demonstrations a week during the second term (in addition to the ordinary work).

In all cases they shall take in addition the ordinary course in Geology.

Fourth Year.

During the Fourth Year students shall specialize either in Botany or Zoology, the other subject being regarded as a minor. The course in the minor subject shall consist of one ordinary continuation course. If Zoology be selected as major subject they shall take courses 3A and 3B, and shall, in addition, be required to write essays on selected subjects.

N.B.—In order to qualify for the Ontario Specialists' Certificate, Zoology must be taken as a major subject.

B.Sc. Course.

Students proceeding to the degree of B.Sc. will be required to take 2.

If they intend to specialize in Zoology in the Fourth Year, they shall, in addition, take the Honours work prescribed for the Third Year. In the Fourth Year they shall take courses 3A and 3B and, in addition, such extra reading and laboratory work as may be prescribed by the B.Sc. Committee.

Meteorology.

Superintendent of Observatory:—C. H. McLeod, Ma.E.

Instruction in Meteorological Observations will be given in the Observatory at hours to suit the convenience of the senior students.

Certificates will be granted to those students who pass a satisfactory examination on the construction and use of meteorological instruments and on the general facts of Meteorology.

Pedagogy.

Lecturer:—S. P. Robins, M.A., LL.D.

Lectures on this subject will be given in the Normal School to undergraduates of the Third and Fourth Years, who wish to obtain the Provincial Academy Diploma.

Lecture hours, Tuesdays and Fridays, 2 to 3.

Physical Training.

Medical Director of Physical Training:—
F. W. Harvey, B.A., M.D.

The classes will meet at the University Gymnasium at hours to be announced at the commencement of the Session. The Wicksteed Silver and Bronze Medals (the gift of Dr. R. J. Wicksteed) are offered for competition to students of the Graduating Class and to students who have had instruction in the Gymnasium for two sessions, — the silver medal to the former, the bronze medal to the latter. (See p. 46).

XI. POST-GRADUATE COURSES.

For the Degree of Master of Arts.

A Bachelor of Arts desiring to proceed to the degree of Master of Arts at the end of one year from graduation, must take one year of graduate work in the University (the course of study having been first approved by the Faculty of Arts); must pass the examinations at the end of the year; and must present, if required, a satisfactory thesis. (See p. 26.)

Permanent arrangements for courses of instruction suitable for candidates for the M.A. degree are made by the following Departments:—English (see p. 107, course 13); Mathematics (see p. 130, course 15); Physics (see p. 134, course 7). In other Departments courses may be arranged on application to the Head of the Department. Candidates should consult the professors concerned before submitting their courses to the Faculty.

For the Degree of Master of Science (in Arts).

The regulations for the degree of Master of Science (in Arts) are similar to those for the degree of Master of Arts. (See p. 26).

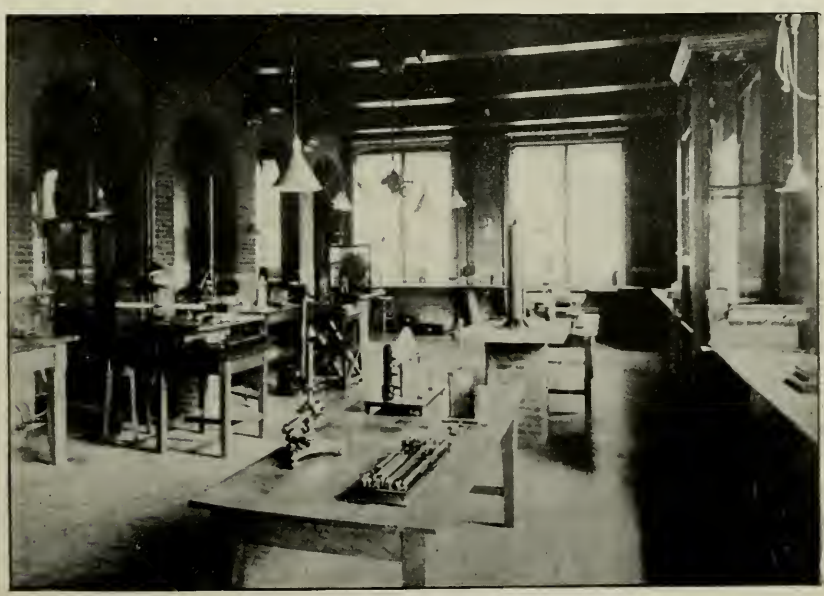
XII. Laboratories.

The Macdonald Physical Laboratories.

The equipment of the Macdonald Physical Laboratories comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by the students in practical work; (3) the most recent types of all important instruments for exact measurement, to be used in connection with special work and research.

The basement contains the cellars, furnaces, and janitor's apartments at the west end of the building. The machine room—containing a small gas engine and dynamo, which are fitted for testing, but can also be used for light and power, a motor-alternator and a motor-dynamo—is situated at the extreme western corner of the basement so as to be as far removed as possible from the delicate magnetic and electrical instruments. Here is also the switch board for controlling the various circuits for supplying direct or alternating current to different parts of the building, and a Liquid Air Plant, consisting of a Whitehead Torpedo Air-compressor, capable of giving 250 atmospheres, driven by an 11-Horse Power Electric Motor, and

Macdonald Physics Building.—Departmental Library.



Macdonald Physics Building.—An Electrical Laboratory.

a Hampson Liquefier with a capacity of 1 litre per hour. The Accumulator Room contains a few large storage cells, charged by the motor-dynamo, which are fitted with a suitable series-parallel arrangement and with rheostats for obtaining and controlling large currents up to 4,000 amperes for testing ammeters and low resistances, etc.

The Magnetic Laboratory contains magnetic instruments and variometers of different patterns, and also a duplicate of the B. A. Electro-dynamometer, which has been completely remodelled and set up with great care for absolute measurements of current. The Laboratory, on the opposite side of the basement contains a very fine Lorenz apparatus for the absolute measurement of resistance, constructed under the supervision of Prof. Viriamu Jones. It also contains a set of Ewing Seismographs and a pair of Darwin Recording Mirrors for measuring small movements of the soil.

There is a Constant Temperature Room, surrounded by double walls, which contains a Standard Rieffler Clock, and is fitted for comparator work.

The ground floor contains at the western corner a small machine shop, fitted with a milling machine and suitable lathes and tools, driven by electric motors, and such appliances as are required for the making and repairing of the instruments, for which the services of a mechanical assistant are retained. There is also a store room for glass, chemicals and cleaning materials, and extensive lockers and lavatories for the use of the students.

The Main Electrical Laboratory is a room 60 feet by 40, and is fitted with a number of brick piers, which come up through the floor, and rest on independent foundations, in addition to the usual slate shelves round the walls. This room contains a large number of electrometers, galvanometers, potentiometers and other testing instruments of various patterns, and adapted for different uses. It connects with a smaller room at the side, in which are kept the resistance boxes and standards, and also the capacity standards. A small research laboratory, adjoining the electrical laboratory, is fitted up for the study of electrical discharge in high vacua, and for work with Rôntgen and uranium radiation, and with ultra-violet light.

The First Floor contains the Main Lecture Theatre, with seats for about 250 students. The lecture table is supported on separate piers, which are independent of the floor. Complete arrangements are provided for optical projections and illustration. The Preparation Room in the rear contains many of the larger pieces of lecture apparatus, but the majority of the instruments, when not in use, are kept in suitable cases in the adjoining apparatus room. On the same floor there is the Heat Laboratory, devoted to advanced work in Thermometry, Pyrometry and Calorimetry, and also to such electrical work as involves the use of thermostats and the measurement of the effects of temperature. There are also two smaller rooms for Professors and Demonstrators.

The Second Floor is partly occupied by the upper half of the Lecture Theatre. There is also an Examination Room for paper work, a Mathematical Lecture Room, with a special apparatus room devoted to apparatus for illustrating Mathematical Physics, and a special Physical Library chiefly devoted to reference books and periodicals relating to Physics. A store room, lavatories and Professors' Room occupy the remainder of the flat.

The Third Floor contains the Elementary Laboratory, a room 60 feet square, devoted to elementary practical work in Heat, Sound,

Light, Electricity and Magnetism. There is a Demonstrator's room adjoining, and an optical annex devoted to experiments with lenses, galvanometers, etc., which require a darkened room. On the other side of the building there is a spectroscopic room, containing a six-inch Rowland grating, with mountings by Brashear, and other large spectrometers and polarimeters. Also a series of smaller optical rooms, including a photometric room, especially fitted for Arc photometry, and a dark room for photographic work. Communication between the different flats is facilitated by means of a hydraulic elevator. The building is lighted throughout by electricity, and heated by hot water. The walls are of pressed brick, and the floors of hard maple. There is a ventilating system, consisting of Tobin tubes and suitable exit flues, assisted by a fan in the roof.

The Macdonald Chemical Laboratories.

The main lecture-theatre, extending through two stories, is entered from the ground floor, and seats nearly 250 students. The lecture-table is supplied with coal-gas, oxygen and hydrogen, electricity, water, vacuum, down-draught, etc., and can be well seen from all parts of the room.

Besides the main lecture-theatre, there are three smaller class-rooms, accommodating from 40 to 60 students each.

The three principal laboratories have each a floor-space of about 2,400 square feet, and together have accommodation for nearly two hundred students working at a time. They are lighted on three sides, and have ample hood space. One is intended for beginners, and the other for more advanced work, more particularly in qualitative and quantitative analysis. In connection with each of the main laboratories is a balance-room, equipped with balances by several of the best makers.

Physical Chemistry is provided for in a special laboratory, nearly 30 by 40 feet, lighted from the north, and supplied with electricity, steam, vacuum pumps, etc. . The equipment of this department consists of the apparatus necessary for the determination of the specific gravities of solutions, of the depression of freezing point, of the rise of boiling point, and of the densities of gases and vapours. There are constant-temperature baths for accurate measurement of solubilities, Kohlrausch's apparatus for determining the electrical conductivity of solutions, and the apparatus necessary for measuring the electro-motive forces generated between metals and their solutions, and in voltaic cells generally. There are also calorimeters for measuring the heat effects produced in chemical reactions. On the same floor there is an optical room furnished with refractometers for measuring the refractive indices of solutions, goniometers, polariscopes and spectroscopes. Other forms of apparatus will be added as required for research work.

Immediately adjoining the laboratory of Physical Chemistry is the Photographic Department, supplied with two dark rooms, arranged on the maze system, and supplied with the necessary appliances for all ordinary photographic work, including an enlarging camera and apparatus for micro-photography.

The laboratory for Gas Analysis has a northern exposure, and is fitted with a large tank to contain water at the temperature of the room, for use in the measurement of gases. The tables are arranged for work with mercury, and the laboratory is supplied with the

apparatus of Hempel, Dittmar, Orsat, Elliott, and others. It contains also Fleuss, Boltwood, and Töpler pumps for providing high vacua.

The laboratory for Electrolytic Analysis is supplied with accumulators, thermopile, platinum electrodes, rheostats, ammeters, voltmeters, etc.

Another room has lately been equipped with electric furnaces and other appliances for electro-chemical work.

The Organic Department comprises a laboratory for preparations and research, a combustion room for analysis, a dark room for polariscope and saccharimeter work, and a lecture room. The laboratory is fitted with all the necessary apparatus for organic research—special hoods for work with poisonous gases, regulating-ovens for digesting and drying at various temperatures, filter presses for the extraction of raw materials, and various forms of apparatus for distillation in vacuo. The dark room is equipped with polariscopes and saccharimeters for sugar work. There is a large quantity of the necessary organic chemicals, which are supplied free of charge to students engaged in routine or research work in this department.

The laboratory for Determinative Mineralogy has places for 28 students, and is supplied with abundant material for practical work. It adjoins the lecture-room, in which the lectures on advanced mineralogy are delivered. The mineralogical department is also provided with suitable machinery, run by electricity, for cutting and polishing minerals.

The Library contains a valuable collection of the most recent English, French and German books, and sets of various journals and transactions, including the Berichte der Deutschen Chemischen Gesellschaft, Journal für Praktische Chemie, Chemisches Central-blatt, Fresenius' Zeitschrift für Analytische Chemie, Zeitschrift für Anorganische Chemie, Annales de Chimie et de Physique, Journal of the Chemical Society, Journal of Physical Chemistry, American Chemical Journal, Chemical News, Journal of the Society of Chemical Industry, Zeitschrift für physikalische Chemie, Zeitschrift für Elektrochemie, Mineralogische und Petrographische Mittheilungen, Electrochemical and Metallurgical Industry, etc. The library is open to students under such restrictions as are necessary to prevent damage or loss of books.

The rooms for allied purposes have, as far as possible, been grouped together on the same floor, and there is a hydraulic lift running from the basement to the attic. The offices and principal laboratories and supply rooms are also connected by a system of telephones. The building is practically fire-proof.

Botanical Laboratories.

The Botanical Laboratories occupy the upper floor of the central Arts building.

The laboratory for general Morphology provides table accommodation for twenty students, and is equipped with all the necessary appliances for the practical study of plants, either fresh or dry.

In connection with this laboratory, a large collection of dried plants is maintained, from which material is drawn for practical work.

The laboratories for special Morphology at present afford accommodation for twelve students. Each table is provided with a com-

plete outfit of instruments and reagents. Provision is also made for accurate micrometric work, and for the production of accurate drawings by means of the camera lucida and Leitz's drawing instrument. More special instruments, including polariscope, spectroscope and photographing apparatus, afford opportunity for detailed studies in these several directions.

An investigator's table held by the University at the Biological Laboratory, Wood's Hall, Massachusetts, is available for such students as may successfully complete the advanced course of the Third and Fourth Years.

Zoological Laboratories.

The Zoological Department occupies the whole of the uppermost floor of the east wing of McGill College and the larger portion of the floor immediately below.

It consists of:—

(*a*). A large laboratory affording accommodation for a class of 90 students.

(*b*). A smaller laboratory capable of seating about 18 students.

(*c*). Three smaller laboratories fitted up for purposes of research.

(*d*). A room fitted up for the University Osteologist.

Dissecting trays, simple and compound microscopes, reasonable quantities of the ordinary reagents and of glass are provided by the department, but students must provide themselves with dissecting instruments, and with razors.

The Department is provided with four large tanks and a number of smaller ones in order to maintain a supply of fresh specimens throughout the winter.

The subjects for practical work, are, as far as possible, selected from species inhabiting the vicinity of Montreal.

The laboratories are well provided with thermostats, microtomes, and other instruments required for advanced research. There is also a small library attached to the department.

A complete set of apparatus for microphotographic work has recently been added to the equipment of the laboratory.

Petrographical Laboratory.

The Petrographical Laboratory, containing the chief rock collections of the University, is situated in the Macdonald Chemistry and Mining Building, and is arranged for the use of Honour and Graduate students. It is provided with a number of petrographical microscopes by Seibert and Crouch, as well as with models, sets of thin sections, electro-magnets, heavy solutions, etc., for petrographical work.

For purposes of study and comparison, in connection with advanced work and petrographical investigation, Dr. Adams' extensive private collection of rocks and thin sections is available.

TIME TABLES.—FACULTY OF ARTS.

LECTURES.

First Year—Men.

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Math.	Math.	French.	Math.	Math.	
10	Latin.	Latin.	Latin.	Latin.	History.	
11	French.	French.	Greek.	Greek.	French.	
12	Greek.	English.	English.	English.	Greek.	
2		Physics.		Physics.		
3	German.	German.	German.	German.		
4		Beginners' German.	Beginners' German.	Beginners' German.	Beginners' German.	
5						

First Year—Women.

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Math.	Latin.	History.	Math.	French.	
10	French.	French.	Greek.	Greek.	Greek.	
11	Latin.	Math.	Math.	Latin.	Latin.	
12	English.	Greek.	English.	French.	English.	
2	German.	German.	Physics.	German.	Physics.	
3					German.	
4		Beginners' German.	Beginners' German.	Beginners' German.	Beginners' German.	
5						

In case no students wish to take both Greek and German, German may, if desired, be taken where Greek is shown.

Second Year—Men.

Hours.	Monday	Tuesday	Wednesday	Thursday.	Friday.	Saturday
9	Latin	German. Hebrew.	French.	French.	Latin.	Chem. Lab.
10	German. Hebrew.	English Comp.	English	English.	French.	Chem. Lab.
11	French.	Chemistry.	History.	Logic and Psychology.	German. Hebrew.	Bot. Lab. (b).
12	Logic and Psychology.	Latin.	Chemistry.	Latin.	Chemistry.	Bot. Lab. (b)
2	English.	Mathematics. Biology.	Logic and Psychology.	Mathematics. Bot. Lab (b)	Mathematics. Biology.	
3	Greek.	Greek. Zool. Lab. (a)	German. Hebrew.	Greek. Bot. Lab. (b)	Greek. Zool. Lab. (a)	
4	History. Chem. Lab.	Zool. Lab. (a)	Economics.	Economics.	Zool. Lab. (a)	
5	Chem. Lab.					

Second Year—Women.

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Latin.	French.	French.	German.	Latin.	Chem. Lab.
10	Logic and Psychology.	German.	English Comp.	French.	English	Chem. Lab.
11	French	Chemistry.	Economics.	German.	Logic and Psychology.	Bot. Lab. (b)
12	English.	Latin.	Chemistry.	Latin.	Chemistry.	Bot Lab. (b)
2	Greek. Biology (a)	Mathematics. Biology (b)	Greek.	Mathematics. Biology (a) Bot Lab (b)	Mathematics. Biology (b)	
3	Zool. Lab. (a)	English.	Logic and Psychology.	Greek. Zool. Lab. (a) Bot. Lab. (b)	Greek. German	
4	Economics. Zool. Lab. (a)	Chem. Lab.	History.	Zool. Lab. (a)	History.	
5		Chem. Lab.				

(a) Before Christmas. (b) After Christmas.

Primary Courses (Third and Fourth Years).

Hours	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Geology. Mechanics. Sanskrit.	Chemistry. English.	Geology. Astronomy Sanskrit.	Latin. Hebrew	German. Psychology. Zoology.	Chem. Lab. Geol. Lab.
10	German. Greek. History. Mathematics Botany. Physics (*B*).	German. Greek. History. Mathematics.	German. Greek. History. Mathematics.	Greek. History. Mathematics. Botany. Physics (*B*)	Geology. Mechanics. Sanskrit.	Chem. Lab. Geol. Lab.
11	Chemistry. English.	Latin. Hebrew.	Latin. Hebrew.	Chemistry. English.	Latin. Hebrew.	Chem. Lab. Geol. Lab.
12	Economics. French. Moral Philos.	Economics. French. Moral Philos. Physics (A)	Eng. Comp. IV.	Economics. French. Moral Philos. Physics (*A*)	Economics. French. Moral Philos.	Geol. Lab.
2	Comp. Philol. Polit. Science Chem. Lab. Physics Lab. Zool. Lab.	Mechanics. Sanskrit. Pedagogy.	Polit. Science. Zoology.	Comp. Philol. Polit. Science. Physics Lab. Zool. Lab.	Polit. Science. Pedagogy	
3	Psychology. Chem. Lab. Physics Lab. Zool. Lab.	English Mathematics. Psychology. Bot. Lab.	Eng. Comp. III. Chem. Lab. 4th year.	Psychology. Physics Lab. Zool. Lab.	English. Bot. Lab.	
4	Logic & Meta. Roman Law. Chem. Lab.	Logic & Meta. Roman Law. Bot. Lab.	English. Roman Law. Chem. Lab.	Logic & Meta. Roman Law.	Logic & Meta. Cons. Law. Rom. Law. (*a*) Bot. Lab.	
5		Const. Law(*a*) Botany Lab.	Chem. Lab.	Const. Law (*a*)	Bot. Lab.	

(*A*) Heat, Light and Sound.

(*B*) Magnetism and Electricity.

(*a*) During Second Term.

N.B.—The term Primary Course denotes the first course taken in the subject subsequent to the Intermediate Examination, whether in the Third or Fourth Year.

Exhibition, Scholarship and Supplemental Examinations, September, 1905.

DATE.	Hour.	Supp. to First Year Sessional.	Second Year Exhibitions.	Supp. to Second Year Sessional.	Scholarships (Third Year).	Supp. to Third Year Sessional.*
Monday. 11	9	English Literature.	English Literature (Shakspere); History.	English Literature (Lectures) Composition.	English Literature (Shakspere and Milton).	English.
	2.30	English History and Composition	English Literature. (Comus, Johnson).	English Literature. (Books).	English Literature (Burke & Arnold).	
Tuesday.....12	9	Latin Books.	Latin Books.	Latin Books.	Latin Books.	Latin Books.
	2 30	Latin Composition, Sight Translation and History.	Latin Composition, Sight Translation. and History.	Latin Composition, Sight Translation, History and Literature.	Latin Composition and Sight Translation.	Latin Composition, Sight Translation, History and Literature.
Wednesday...13	9	French.	French.	French.	French Books. Psychology.	French: Botany.
	2.30	German.	Adv. Greek German.	German.	French Composition and Sight.	German.
Thursday.....14	9	Algebra.	Alg., Trig.	Algebra.	Biology. Analytic Geometry. Rom. Hist., 9-10.30 Greek Hist., 10.30-12	Mathematics.
	2.30	Trigonometry.	Geometry.	Trigonometry.	German Books. Trig. and Alg. Biology.	Chemistry.
Friday.....15	9	Greek Books.	Greek Books.	Greek Books. Logic.	Greek Books; Physics.	Greek Books.
	2.30	Greek Composition, Sight Translation and History.	Greek Composition, Sight Translation and History.	Greek Composition, Sight Translation, History and Literature.	Greek Composition and Sight Translation.	Greek Composition, Sight Translation, History and Literature.
Saturday.....16	9	Physics.	Theory of Equations. Adv. Latin	Mathematics. Biology.	Diff. and Int. Calculus; German, Comp. & Sight.	
	2.30		Physics.	Chemistry.	Modern History; English Composition.	

* Periods for other subjects to be arranged at the time of the Examinations.

Christmas Examinations, 1905.

Morning examinations commence at 9; afternoon examinations at 2.30.

Day and Date.	First Year.	Second Year.	Third and Fourth Years.*
Thursday, Dec. 14th ...A.M.	Latin.	Latin.	Latin.
" P.M.		Geometry.	Logic.
Friday, Dec. 15th .....A.M.	Greek.	Greek.	Mechanics; Astronomy.
" P.M.		Chemistry.	Geology.
Monday, Dec. 18th.... A.M.	Physics.	Psychology.	Greek; Economics.
" P.M.	French.	French.	Physics (Third Year).
Tuesday, Dec. 19th.....A.M.	Geometry.	English.	Moral Philosophy, French.
" P.M.	German.	German.	German.
		Hebrew.	Botany.
Wednesday, Dec. 20th..A.M.	English.		Physics (Fourth Year).
" P.M.		Biology.	Zoology, Political Science.

* Examination periods will be arranged during the term for those subjects of the Third and Fourth Years which are not named in this Table.

The Christmas Examinations are obligatory on all undergraduates, and on partial students of the First Year, and the standing gained therein will be taken into account by the Faculty at the close of the session. The results will be made known after the Christmas vacation.

Sessional Examinations, 1906.

Morning examinations commence at 9; afternoon examinations at 2.30.

Day and Date.	First Year.	Second Year.	Third and Fourth Years.
Thursday, April 5th.. A.M.		German.	English Composition.
" P.M.		German.	English.
Friday, April 6th.....A.M.	English.	English.	French, Econ., Moral Ph.
" P.M.	English.	English.	French, Econ., Moral Ph.
Saturday, April 7th....A.M.	Physics.		Physics.
Monday, April 9th.....A.M.	Latin.	Latin.	Latin, Hebrew.
" P.M.	Latin.	Latin.	Mechanics, Latin, Hebrew.
Tuesday, April 10th....A.M.	Algebra.	Chemistry.	Chemistry.
" P.M.	Trigonometry.	Chemistry.	Chemistry, English.
Wednesday, April 11th.A.M.		Hist. & Econ.	Geology, Sanskrit, Astronomy.
" P.M.		Hist. & Econ.	Geology, Sanskrit.
Thursday, April 12th...A.M.	French.	Greek.	Logic & Meta., Botany.
" P.M.	French.	Greek.	Logic & Meta., Botany.
Tuesday, April 17th.....A.M.	Greek.	French.	History, Greek, German, Math.
" P.M.	Greek.	French.	History, Greek, German, Math.
Wednesday, April 18th.A.M.	German.	Logic.	Political Science, Comp. Phil.
" P.M.	German.	Hebrew.	English.
Thursday, April 19th. A.M.		Mathematics. Botany, Zoology	Psychology, Zoology.
" P.M.		Mathematics. Zoology.	Psychology, Zoology.

Royal Victoria College for Women

Royal Victoria College.

The institution of the Royal Victoria College, in September, 1899, was a direct continuation of the work begun in 1883, during the Principalship of the late Sir William Dawson, when Lord Strathcona and Mount Royal placed a sum at the disposal of the University of McGill, for the Endowment of a College and classes for women. For many years previously it had been hoped by those interested in the education of women in Montreal that the University would extend its benefits to women, but the means necessary for carrying out such an aim had not been available. The classes were organized in 1884 as a Special Course in the Faculty of Arts, held at McGill College, separate in the main from those for men, but under identical conditions. In some of the work of the Third and Fourth Years, and in the Honour and Additional Courses, the classes were held jointly.

The ultimate aim of Lord Strathcona had been the foundation of a place of residence, and, with this object, he announced his intention of building and endowing the Royal Victoria College. By the opening of this Institution the opportunity of residence and college life is given to women-students of McGill University, working in accordance with the system previously organized in the Special Course in Arts, but under greatly improved conditions. A share in the advantages of college life is offered also to the non-resident women-students of the University, who are henceforth also students of the Royal Victoria College. Additional elements have been added in the organization of a Musical Department, and in the institution of Resident Women Tutors. These additions are in accordance with the general aim of the College; viz., the higher education of women, and mainly to qualify them to take degrees in Arts (including Pure Science), and to provide them with instruction in those branches of a liberal education necessary thereto and in such other subjects as may from time to time be determined.

The College being a residential College for the Women-Students of McGill University, its students, whether Undergraduates, Conditioned Students, or Partial, follow the courses in Arts and Pure Science offered by the University, (see pp. 91-145.

Lectures are given by the Professors and Lecturers of the University, either in the College or in the University buildings, and students attend the University Laboratories for practical instruction. In addition to the instruction given in lectures and laboratory practice, the students of the Royal Victoria College are assisted in their studies by the Resident Tutors.

The College Building.

The College is situated on Sherbrooke Street at the head of Union Avenue, in close proximity to the Univrsity buildings and to the slopes of Mount Royal. The building is fireproof, and much thought and artistic care have been given to the furnishing and decoration.

On the ground floor are the offices of the Administration, including the rooms of the Warden and Secretary, the Professors' common room, lecture rooms (English, French, German, Mathematics), students' common room and a spacious dining hall. On the first floor are other lecture rooms (Latin, Greek, Logic, and Philosophy, the library, reading room, and a handsome assembly hall. On the second and third floors are the rooms of the resident students. These are of varying size and plan. Each student has a separate bedroom, and, as a rule, one sitting-room is shared by the occupants of the two or three bedrooms immediately adjoining. The entire use of a sitting-room can be obtained, and there are some rooms which may be used as study-bedrooms. The rooms are completely furnished, and no article of furniture need be brought by the students. No part need be taken by the students in the care of their rooms.

In addition to the lawn at the back of the College, the students are entitled to use, subject to regulations, the grounds of McGill University, with its tennis-courts, skating-rink, etc.

A nucleus of a College Library has been formed with a set of books, comprising the stated books and others referred to in connection with the University curricula, the modern language course being especially well represented. There are

also works of general literature. The Library is a reading-room, and the books are not taken away. The students have access also to the University Lending Library.

Students of Music have the use of a large practising-room, and, at certain hours, of the piano in the common room, as also of the Gymnasium piano.

The Gymnasium, fully equipped in accordance with modern requirements, is in the basement. In connection with the Gymnasium there are bath-rooms and dressing-rooms.

The health of the students is under the charge of a competent physician practising in Montreal, who may be consulted free of charge.

Students of the Royal Victoria College, as students of McGill University, are entitled to the use of the University Library, containing about 106,000 volumes, and the Peter Redpath Museum, containing large collections in Mineralogy, Palæontology, Zoology, Botany, Archæology, and Ethnology, and to work in the Physical, Chemical, Zoological, Botanical and other laboratories and the Botanic Gardens of the University. (For particulars of laboratories, etc., see pp. 146-150.)

Board and Residence.

Residence in the College buildings is open to Undergraduates, Conditioned Students, or Partial Students, but the last are not received in residence unless they take courses of study approved by the Faculty of the College. The expense of board and residence ranges from $290 to $440, in addition to the sessional fees for tuition (see pp. 32-34), according to the room or rooms occupied by the students; for a majority of the rooms the expense of board and residence is $290. These charges cover the University Session, 12th September—27th April, and the summer classes, May 1st—15th June. A deduction of $50 is made in the case of students who go out of residence at the end of the University Session.

Applications for admission or further particulars should be addressed to the Warden, Royal Victoria College, Montreal.

Physical Training.

The Gymnasium is in the charge of an Instructor specially appointed for the purpose, whose assistance and services will be made available to students at such hours as may best suit

their convenience. Particular attention is devoted to the application of exercise in cases of physical weakness. All students undergo a physical examination on entering upon the gymnastic course, under the superintendence of Dr. F. W. Harvey, Medical Director of Physical Training. Fencing classes and teams of Basket-Ball are formed, and, when weather permits, these and other exercises are practised on the lawn, at the back of the College building. This ground is also provided with lawn-tennis courts. In the Session 1905-6, students of the First Year will be required to take regular Physical exercise in the Gymnasium amounting to two periods per week.

Exhibitions and Scholarships.

For a statement of the Exhibitions and Scholarships open to Women Students of the University, see pp. 55-67.

In addition to these, and further to encourage residence within the College walls of students who might otherwise arrange to board in the city, the Warden and Faculty are empowered to make nominations in any of the four College years to not more than three additional Exhibitions of the value of $100 each.

Music.

Apart from the University Courses, instruction in Music is offered at the College, for which a separate fee is charged. The instruction includes the Pianoforte in all its branches (solo, ensemble playing, concertos, duos for two pianofortes); Singing (voice production, vocalization, sight-singing, ear-tests, solo and part singing): and Lectures on Theory (elements of music, harmony, counterpoint, and history of music). Attendance at certain of these Courses is expected of all students of music.

For information regarding courses, fees, etc., in the McGill Conservatorium of Music, under the direction of Mr. Charles A. E. Harriss as Director, and Miss Lichtenstein as Head of the Staff, see separate announcement.

For Time Tables of Lectures in Arts see pages 151-153.

Macdonald Engineering Building.

Faculty of Applied Science.

FIELD WORK IN SURVEYING WILL BEGIN ON MONDAY, AUGUST 21st. LECTURES WILL BEGIN ON WEDNESDAY, SEPTEMBER 20TH.

§ I. General Statement.

The instruction in this Faculty is designed to afford a complete preliminary training, of a practical as well as theoretical nature, in the following:—

I.—ARCHITECTURE.
II.—CHEMISTRY
III.—CIVIL ENGINEERING AND SURVEYING.
IV.—ELECTRICAL ENGINEERING.
V.—MECHANICAL ENGINEERING.
VI.—METALLURGY.
VII.—MINING ENGINEERING.
VIII.—TRANSPORTATION.

TRANSPORTATION.—A course of study in transportation has been added to the seven existing courses, and is especially intended to educate young men who propose to take up Railway Service as a profession. The Canadian Pacific, Grand Trunk and Canada Northern Railways have strongly advocated the project and have shown their practical sympathy by promising liberal annual contributions to enable the University to undertake the work in a thorough manner. Conferences with the same object in view are being held with other great Railways and it is expected that further assistance will be secured.

Students taking this course will be required to specialize along the lines of either civil or mechanical engineering. On graduation they will receive the degree of Bachelor of Science in Civil or Mechanical Engineering and mention will be made of the fact that they have taken the course in Transportation.

It is expected that the Railway Companies will give preference in the matter of employment to graduates in Transportation.

On pages 183 and 184 will be found tables giving details (subject to modification) of the course in Transportation.

The degrees conferred by the University upon such undergraduates of the Faculty as fulfil the conditions and pass the examinations hereinafter stated are, in the first instance, "Bachelor of Architecture, (B. Arch.) and Bachelor of Science" (B.Sc.), mention being made in the diploma of the particular Course of study pursued, and, subsequently, the degrees of "Master of Science" (M.Sc.), and "Doctor of Science" (D.Sc.).

The curriculum, as laid down in the following pages, may be changed from time to time as may be deemed advisable by the Faculty. The work of the first two years is the same in all courses, with the exception of that in Chemistry and for the degree of Bachelor of Architecture.

§ II. Matriculation and Admission.

For subjects of matriculation, conditions and fees, see pp. 11-14, 16, 19-23 and 32.

Students or graduates of other universities and institutions, who may desire to enter any of the Engineering Departments in this University, will be admitted to an equivalent standing and will be given credit for all such work as they may have done and for which they can present certificates of having passed satisfactory examinations.

Full information as to admission into the several Engineering Departments of the University can be obtained by intending English students from J. Stuart Horner, Esq., care of Messrs. John Birch & Co., 3 London Wall Buildings, London, E.C., who kindly acts as the Honorary Representative of the University in England.

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§ III. Examinations and Degrees.

I. For the Degree of Bachelor of Science (B.Sc.).

Sessional examinations are held in all the subjects. In addition, there are Christmas examinations in certain of the subjects, and class examinations are held from time to time.

By a resolution of the Institution of Civil Engineers (England) the holders of this degree, in the courses of civil, electrical, mechanical, and mining engineering, and transportation, are exempted from the examination for associate membership (A. M. Inst. C. E.) of the Institution.

II. Higher Degrees.

For regulations relating to the degrees of "Master of Science" (M.Sc.), and "Doctor of Science" (D.Sc.), see pp. 27 and 28.

III. Special Provisions for Obtaining the two Degrees of "Bachelor of Arts (B.A.) and Bachelor of Science (B.Sc.) in Six Years.

For particulars, see pp. 83 and 84.

§ IV. Graduate Courses.

Students who take the Bachelor's degree in one of the courses provided by the Faculty of Applied Science may graduate in any of the remaining courses by attending one or more subsequent sessions.

Graduates may also take an advanced course in the branch in which they have received their degree. The Master's degree will be conferred on their passing an examination at the end of such advanced course, and on presentation of a satisfactory thesis on approved work.

Students are strongly recommended to take a graduate course, and special arrangements will be made for advanced and research work in the following:—

Architecture.—Advanced study in design.

The elasticity and strength of materials. See § XI, 3, and § XII, 13.

Mining and Metallurgy.—Advanced study in metallurgy and mining can be carried on with great advantage in the laboratories. (See § XI, 11, 13, and § XII, 9 and 10.)

The efficiency of pumps and hydraulic motors. (See § XI, 3, and § XII, 7.)

Ore dressing, coal washing, and gold and silver milling. The laboratories of the Mining department have been equipped and arranged with special reference to advanced and research work in the theory and practice of concentration. (See p. 225.)

The efficiency of power transmission by air, water, gas, and steam. (See § XI, 3, 5, 10.)

The efficiency of steam, gas and hot-air engines and of air compressors. (See § XI, 10.)

The efficiency of machines and machine tools, and the power absorbed by the several processes of mechanical work. (See § XI, 10.)

The efficiency of dynamometers, belting and shafting, including investigations into the relative merits of the several unguents. (See § XII, 8.)

The efficiency of the several types of boilers, including investigations on the heat-producing power of fuels. (See § XI, 10.)

The flow of water through orifices and pipes, and over weirs. (See § XI, 3, and § XII, 7.)

Geodesy and practical astronomy. (See § XII, 15.)

Physics.—The Macdonald Physics Building has been equipped and arranged with special reference to graduate courses and original research work in various branches of pure Physics. Every facility will be afforded in the workshops for the construction of special apparatus required for such investigations. (See § XII, 12.)

Mathematics.—Students taking graduate courses will receive guidance in any advanced mathematics required in connection with their work.

Chemistry and Mineralogy. (See § XI, 2, 8, and § XII, 4.)

The determination and comparison of the errors and the co-efficients of standards of length. (See § XI, 15, and § XII, 6.)

The determination of gravity. (See § XII, 6.)

§ V. Attendance and Conduct.

(1) *General Regulations.*

See page 40.

(2) *Special Regulations re Attendance.*

(a) The total number of absences in any one course shall not exceed one-eighth of the full total of complete attendances in that course. A student absenting himself on a

greater number of occasions than the above will not be permitted to come up for examination in the subject of that course.

The above regulation applies to all courses of study, but it is open to the Faculty to make special regulations still further limiting the number of absences permitted in any special course or courses.

(b) Lectures shall commence at five minutes after the hour, on the conclusion of the roll-call, and students failing to answer to their names shall be marked "absent," unless they report themselves at the close of the lecture, in which case they shall be marked "late," and given such credit for attendance as the Faculty may deem advisable. Lectures shall end at five minutes before the hour.

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§ VI. Library.

Students in this Faculty are entitled to use the University Library in accordance with the regulations cited under the head "University Library." They also have access to the various departmental libraries under the special regulations by which each is governed.

§ VII. Fees and Registration.

See pp. 30, 31 and 34.

§ VIII. Medals, Exhibitions, Prizes and Honours.

1. The British Association Medals and Exhibition, founded by the British Association for the Advancement of Science, in commemoration of the meeting held in Montreal in the year 1884.

A British Association medal and prize in books are open for competition to students of the graduating class in each of the eight courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examinations.

2. The Governor General's silver medal (the gift of His Excellency The Right Honourable Earl Grey).

This medal will be awarded for graduate research work.

3. Summer Work. (See § IX., 1). The following prizes are offered for the best summer theses:—

To the students of the Civil Engineering Course, a prize of $25, presented by E. B. Greenshields, Esq., B.A.

To the students of the Electrical Engineering Course, a prize of $25.

To the students of the Mechanical Engineering Course, a prize of $25 presented by the Crosby Steam Gauge & Valve Co.

To the students of the Mining Engineering Course, a prize of $25 presented by Geo. E. Drummond, Esq.

Four prizes, each of the value of $25, are offered for competition to student members of the Canadian Society of Civil Engineers, for the best papers on subjects in any department of engineering. The summer theses prepared by students of this University are available for this competition.

4. A gold medal and two prizes of $35 and $15, offered by the Canadian Mining Institute, will be open for competition to students from McGill University, Toronto University and Queen's University, and will be awarded to the students presenting the best papers on some subjects connected with mining, ore dressing, metallurgy, or economic geology. Preference will be given to those theses which show decided originality.

5. The following Exhibitions and Prizes will be open for competition at the beginning of the session:—(*Students are required to notify the Dean of their intention to compete, at least one week before the commencement of the Examination.*)

(A) A British Association Exhibition of $50.00 and prize of $25.00, to students entering the fourth year, the subjects of examination being the Mathematics and Theory of Structures of the ordinary course.

(B) Three prizes of $25.00, $15.00 and $10.00, to students entering the third year, the subject of examination being the Mathematics of the second year.

(C) A Scott Exhibition of $50.00, founded by the Caledonian Society of Montreal, in commemoration of the Centenary of Sir Walter Scott, and two prizes of $25.00 and $15.00, to

students entering the second year, the subjects of examination being:—

(*a*) English Literature (Summer Vacation Work); (*b*) Mathematics of the first year; (*c*) Descriptive Geometry of the first year.

(D) Two prizes, each of $10.00, presented by J. M. McCarthy, Esq., B.A.Sc., to students entering the third year, for proficiency in Levelling and Transit Work.

6. The sum of $150, presented by W. A. Carlyle, Esq., Ma.E., may be awarded in prizes to students of the Mining Course taking the highest positions in the degree examinations of 1906.

7. A prize of $50.00, presented by James Tighe, B.A.Sc., for research work in Hydraulics.

8. An exhibition offered to graduates by A. E. Childs, M.Sc., for a special research on "The flow of gas through pipes under pressure."

9. It is proposed to offer in September, 1905, a Research Scholarship in Chemistry, on the endowment of the late Dr. T. Sterry Hunt, to graduate students in this Faculty or the Faculty of Arts.

10. The Allis-Chalmers Company of Chicago has decided to present annually to the Faculty a scholarship in the form of a three or four months' course at the Company's works at Chicago, with the addition of a sum of $150.00.

11. A scholarship of the value of $75.00 has been offered by Mr. Andrew T. Taylor, F.R.I.B.A., for competition by undergraduate students during the Second Year of the Architectural course.

The basis of the award will be the average of marks obtained in all examinations and the drawings, architectural, constructional and freehand, done throughout the session, the progress of the student as well as his proficiency being taken into account.

The award will be made in May, 1906, (but unless a good standard of work is obtained, the scholarship will lapse till the next year) and the money will be paid over during the course of the following session.

12. The Province of Quebec Association of Architects offers a scholarship covering the fees of a full course in Architecture, to be open for competition to students from the Province

of Quebec. Particulars may be obtained from the Assistant Secretary of the Association, 112 Mansfield Street, Montreal.

13. Prizes or Certificates of Merit are given to such students as take the highest place in the sessional and degree examinations.

14. Bursaries.—The generosity of graduates and others has enabled the University to offer a number of bursaries in aid of deserving students in narrow circumstances, who have shown a satisfactory degree of proficiency in the Matriculation Examination for Applied Science.

The application for one of these bursaries must be addressed to the Dean of the Faculty of Applied Science, and must state particularly the circumstances of the case, with the reasons for asking aid.

No application will be considered before the 1st August, 1905.

15. Honours.—On graduation, Honours will be awarded for advanced work in professional subjects.

16 Science Scholarships granted by the Royal Commission for the Exhibition of 1851.—The scholarships of £150 sterling a year are tenable for two or, in rare instances, three years. They are limited, according to the Report of the Commission, "to those branches of Science such as Physics, Mechanics and Chemistry, the extension of which is specially important for our national industries." Their object is not to facilitate ordinary collegiate studies, but "to enable students to continue the prosecution of Science with the view of aiding in its advance or in its application to the industries of the country."

It is open to students of not less than three years' standing in the Faculties of Arts or Applied Science, and is tenable at any university or at any other institution approved by the Commission.

A nomination to one of these scholarships for the year 1905 was placed by the Commission at the disposal of McGill University, and another may be granted in 1907.

This Exhibition has been awarded as follows:—

Evans, P. N., 1891; Macphail, J. A., 1893; King, R. O., 1895; Gill, J. L. W., 1897; McLean, W. B., 1899; McClung, R. K., 1901; Cooke, H. Lester, 1903; Johnson, F. M. G., 1905.

17. Workshop Prize.—A prize of $20.00, presented by C. J. Fleet, Esq., B.A., B.C.L., for bench and lathe work in the woodworking department, open to students of not more than two terms' standing in workshop practice.

§ IX. Special Provisions.

1. Summer Work.—During the summer vacation following the close of each year, all students entering the third and fourth years are required to prepare a thesis on a subject specified by the Faculty. Any student may substitute for the specified subject a report on some practical work in course of construction. The marks given for these theses are added to the results of the sessional examinations, but no credit will be given for any report handed in after October 2nd.

2. All students entering the second year (excepting those taking the Practical Chemistry Course), students in the Civil and Mining Engineering Courses entering the third year, and students in the Civil Engineering Course entering the fourth year, are required to be in attendance at the Surveying School on the 21st August, when the Fieldwork in Surveying and Geodesy will commence. (See § XI, 15.)

3. All students in the Mechanical, Electrical and Metallurgical Courses are required to attend a summer session of about six weeks between the second and third years. The work to be done in these courses will be specified later.

4. All students in the Mining and Metallurgical Courses are required to attend the Summer School in Mining, held between the third and fourth years(four to six weeks of field-work). The school is held in May and June. (See § XI, 13.)

5. Partial Students may be admitted to the professional classes upon payment of special fees. (See pp. 10, 11 and 34.)

6. Students in Applied Science may, by permission of the Faculty, take the Honour Courses in the Faculty of Arts.

7. Undergraduates in Arts of the second and third years, or graduates of any university, entering the Faculty of Applied Science, may, at the discretion of the professors, be exempted from such lectures in that Faculty as they have previously attended as students in Arts.

8. Students who have failed in an examination may regain their standing by passing a supplemental examination at a

time appointed by the Faculty.* Unless such supplemental examination is passed, students will not be allowed to proceed to any subsequent examination in the subject. A second supplemental examination will not be granted unless under exceptional circumstances, to be investigated in each case by the Faculty.

9. Students may be required to answer satisfactorily a weekly paper on such subjects of the course as the Faculty may determine.

10. Credit will be given in the sessional standing for class examinations held during the session, and for the Christmas examinations.

11. Students who fail to obtain their session, and who in consequence repeat a year, will not be exempted from examination in any of those subjects in which they may have previously passed, except by the express permission of the Faculty. Application for such exemption must be made at the commencement of the session.

12. Partial Students are not eligible for prizes.

13. Admission of Women.—The conditions upon which women are admitted into any of the courses in the Faculty of Applied Science may be obtained on application to the Dean.

14. Certificates may be given to students who have passed through any of the special courses attached to the curriculum.

15. The headquarters of the Canadian Society of Civil Engineers are located in Montreal. Students in all departments of engineering are strongly recommended to become student members of the Society, which they can do on payment of a fee of $2.00. They are then entitled to the two volumes of "Transactions," which are annually published, and to the use of the Society's rooms on Dorchester Street. They also have opportunities of meeting the prominent engineers of the country and of being present at the fortnightly sessions, at which papers are read by leading members of the Society on current engineering subjects and works of construction.

During the winter there will be a special series of students' meetings, at which papers, illustrated by lantern slides, will be read by well-known engineers. Students may also compete for the prizes which are offered by the Society (see p. 166).

* *In and after* 1906 *First Year supplemental examinations will be held only in June, at the close of the summer session.*

16. The headquarters of the Canadian Mining Institute are in Ottawa. Students in Mining and Metallurgy are strongly recommended to become members of the McGill Mining Society, which, although a student body (see p. 211), is affiliated with the Institute. Members of this Society receive the Transactions of the Institute without extra expense, and are entitled to attend all meetings and to compete for the prizes offered (see p. 166).

X. Courses of Instruction.

I. Architecture.

The Architectural Course, qualifying for the degree of Bachelor of Architecture (B.Arch.), differs from the others in the Faculty of Applied Science in that the curriculum is from the First Year separate and distinct, the studies in that Year being divided between the Faculties of Arts and Applied Science.

In the Second Year the Architectural studies proper commence and the amount of time devoted to design increases in the Third and again in the Fourth Years.

Broadly speaking, the lectures may be divided into five groups dealing respectively with History, Structure, Theory of Design, Ornament and Decoration, and Professional Matters, and in all courses studio work goes hand in hand with oral teaching, thus ensuring a thoroughly practical acquaintance with the subjects taken up, while at the same time affording abundant opportunity for the acquisition of power in draughtsmanship and practice in Design, this latter being the chief aim of the course.

The degree of B.Sc. in Architectural Engineering is provided for in an alternative course. In this case, the first two years are taken with the Civil Engineering students and Theory of Structures is included in the work of the latter years.

The Arts matriculation (with French compulsory, and Freehand and Geometrical Drawing added) will be taken by those studying for the degree of B.Arch., while the Applied Science matriculation will be taken by those studying for the B.Sc. degree.

The lecture hours in the Third and Fourth Years are, as far as possible, from 9 to 10 in the morning, to enable Partial Students working in offices to avail themselves of the instruction. Such lectures will be found valuable for those studying for the R.I.B.A. and the P.Q.A.A. examinations.

The subjects of instruction and the number of hours per week devoted to each are as follows. (The allocation of time is liable to be varied according to the aptitude of the student) :—

Degree of Bachelor of Architecture.

First Year.

	Hrs.		Hrs.
English	3	Architectural Drawing	4
French	4	Descriptive Geometry	3
History	4	Freehand Drawing	3
Mathematics	4	Shopwork	3
Physics	2	Lettering	1
Physics Lab	4		

Second Year.

	Hrs.		Hrs.
Mathematics	3	Building Construction	1
History of Architecture	1	Detailing	3
Reference	4	Surveying	2
Archt. Drawing, Historical	4	Mapping	3
Theory and Evolution of Architecture	1	Freehand Drawing	4
Design	5	Descriptive Geometry	2
		Modelling	2

Third Year.

	Hrs.		Hrs.
History of Architecture	1	Sanitation and Heating	1
Reference	3	Drain Plans and Heating Systems	3
Archt. Drawing, Historical	4	Structural Engineering	1
Building Trades	1	Structural Eng. Details	3
Working Drawings	3	Architectural Design	9
Descriptive Geometry	1	Freehand Drawing	3
Perspective	3	Modelling	3

Fourth Year.—(*First Term*).

	Hrs.		Hrs.
History of Architecture	1	Specifications	1
Reference	3	Structural Design	6
Archt. Drawing, Historical	4	Modelling	3
Planning	1	Freehand Drawing	3
Architectural Design	10	Pen and Ink	3
Ornament	1		
Color Decoration	3		

FOURTH YEAR.—(*Second Term*).

	HRS.		HRS.
History of Architecture	1	Ornament	1
Reference	3	Color Decoration	3
Archt. Drawing, Historical	4	Professional Practice	1
Planning	1	Structural Design	3
Archt. Design	19		

DEGREE OF BACHELOR OF SCIENCE (ARCHITECTURAL ENGINEERING)

FIRST YEAR.

	HRS.		HRS.
Descriptive Geometry	4	Mathematics	10
English	2	Physics	2
Freehand Drawing	3	Physical Laboratory	4½
Lettering	3	Shopwork	

SECOND YEAR.

	HRS.		HRS.
Chemistry	(p. 189), 3	Physics	(p. 212), 2
Kinematics of Machines	(p. 202), 3	Surveying	(p. 215), 2
Mapping	(p. 215), 3	Chemical Laboratory	(p. 189), 4
Materials of Construction	(p. 188), 1	Physical Laboratory	(p. 213), 3
Mathematics 4, 5, 9	(p. 202), 6	Shopwork	(p. 234), 3
Mechanical Drawing	(p. 203), 3		

THIRD YEAR—(*First Term*).

	HRS.		HRS.
History of Architecture	1	Structural Engineering	1
Reference	3	Structural Eng. Details	3
Archt. Drawing, Historical	4	Theory of Structures	3
Building Construction	1	Graphical Statics	2
Detailing	3	Testing Laboratory	3
Descriptive Geometry	1	Architectural Design	6
Perspective	3		
Sanitation and Heating	1		
Drain Plans and Heating Systems	3		

FOURTH YEAR.

	HRS.		HRS.
History of Architecture	1	Ornament	1
Reference	3	Specifications and Professional Practice	1
Archt. Drawing, Historical	4	Structural Design	18
Planning	1		
Architectural Design	10		

II. Chemistry.

The course in Chemistry is arranged to give the student in the first two years a thorough knowledge of the fundamental principles of Chemistry and Physics, with sufficient Mathematics to enable him to understand the theoretical parts of these subjects.

In the two subsequent years Chemistry, analytical, organic, and physical, is taught both in its purely scientific aspects and in its relations to the various departments of commercial work. Special facilities are afforded for the prosecution of post-graduate research work in all the branches of Chemistry.

The subjects of instruction and the number of hours per week devoted to each subject are as follows:—

First Year.

	Hrs.		Hrs.
Descriptive Geometry	(p. 195), 4	Mathematics, 1, 2, 3. 8.	(p. 201), 10
English	(p. 198), 2	Physics	(p. 212), 2
Freehand Drawing	(p. 199), 3	Physical Laboratory	(p. 213), 4½
Lettering	(p. 199), 3	Shopwork	(p. 234 , 7

Second Year.

	Hrs.		Hrs.
Chemistry	(p. 189), 3	Chemical Laboratory	(p. 189), 17
Mathematics, 4, 5, 9	(p. 202), 6	Physical Laboratory	(p. 213), 3
Physics	(p. 212), 2		

Third Year.

	Hrs.		Hrs.
Chemistry	(p. 190), 3	Metallurgy	(p. 205), 1
Determinative Mineral	(p. 208), 3	Mineralogy	(p. 208), 2
Geology	(p. 199), 3	Chemical Laboratory	(p. 190), 18

Fourth Year.

	Hrs.		Hrs.
Chemistry	(p. 190), 4	Chemical Laboratory	(p. 191), 29
Mineralogy	(p. 208) 2 (a)		

III. Civil Engineering.

The courses of study in Civil Engineering are designed to give to the student a sound theoretical and practical training in the sciences and principles which underlie the profession of a civil engineer. It is scarcely possible for any one person to become proficient in all branches of civil engineering, so wide is its scope and so inclusive is its purpose. As generally defined it is the "art of economically directing the great sources of power in nature to the use and convenience of man," by the construction of roads, railways, bridges, aqueducts, viaducts, canals, docks, harbours, breakwaters, light-houses, by the construction and adaptation of machinery, by the lighting and draining of cities and towns, and by the exploitation of mines. All these works are more or less governed by the same principles, and in these principles the student is carefully instructed, and by means of numerous problems occurring in every day practice, he is taught to apply his knowledge to the actual conditions of life.

During the session arrangements are made for the delivery, by distinguished engineers, of special lectures or short courses of lectures on actual works of construction.

Provision is made, by means of advanced classes, for graduates and special students to continue their studies and to engage in researches with a view to the solving of some of the numberless problems which confront the engineer in every direction. Much valuable work of this character has been already accomplished, and especial reference may be made to the fact that for several years graduates of other universities—some holding scholarships under the Royal Commissioners for the Exhibition of 1851—have carried out investigations in the several laboratories.

The subjects of instruction and the number of hours per week devoted to each subject are as follows:—

First Year.

	Hrs.		Hrs.
Descriptive Geometry..(p. 195),	4	Mathematics, 1, 2, 3, 8(p. 201),	10
English .....(p. 198),	2	Physics .....(p. 212),	2
Freehand Drawing.....(p. 199),	3	Physical Laboratory..(p. 213),	4½
Lettering .....(p. 199),	3	Shopwork.....(p. 234),	7

SECOND YEAR.

	HRS.		HRS.
Chemistry	(p. 189), 3	Physics	(p. 213), 2
Kinematics of Machines.	(p. 202), 3	Surveying	(p. 215), 2
Mapping	(p. 215), 3	Chemical Laboratory	(p. 189), 4
Materials of Construction	(p. 188), 1	Physical Laboratory	(p. 213), 3
Mathematics, 4, 5, 9	(p. 202), 6	Shopwork	(p. 234), 3
Mechanical Drawing	(p. 203), 3		

THIRD YEAR.

	HRS.		HRS.
Descriptive Geometry	(p. 195), 4	Railway Structures	(p. 217), 3 (b)
Geology	(p. 199), 3	Roads and Canals	(p. 217), 2
Geological Excursion	(p. 200), 3 (c)	Structural Engineering.	(p. 188), 2
Graphical Statics	(p. 192), 2 (a), 3 (b)	Surveying	(p. 215), 2
Mapping	(p. 215), 6	Theory of Structures	(p. 191), 3
Mathematics, 6, 7, 10	(p. 202), 2	Thermodynamics	(p. 204), 1
Mechanical Drawing	(p. 203), 3 (opt)	Testing Laboratory	(p. 192), 3
Municipal Engineering.	(p. 194), 1	Thermodynamic Lab.	(p. 230), 2 (b)
Museum Work in Geology	(p. 200), 1 (d), 2 (b)		

FOURTH YEAR.

	HRS.		HRS.
Designing	(p. 203), 6	Railway Engineering	(p. 218), 2
Geodesy	(p. 216), 2	Structural Engineering.	(p. 189), 2
Graphical Statics	(p. 192), 3	Theory of Structures	(p. 191), 4
Hydraulics	(p. 193), 2	Geodetic Laboratory	(p. 216), 4
Mechanical Engineering	(p. 204), 2 (a)	Hydraulic Laboratory	(p. 193), 3 (a)
Municipal Engineering.	(p. 194), 1	Testing Laboratory	(p. 192), 6

IV. Electrical Engineering.

The first and second years of the undergraduate course of instruction in Electrical Engineering, are devoted, mainly, to a preparation in Mathematics, Physics, Chemistry, Mechanics, Drawing, Shopwork and work in the physical and chemical Laboratories.

The electrical studies of the third year embrace a consideration of continuous current flow, in circuits of different kinds, the principles of electro-magnetism, electrical measurements and the design and action of commutating machinery.

The fourth year is devoted principally to electrical work, and includes lectures and recitations on variable and alternating current phenomena, the principles of action and the design of alternating current machinery, electric lighting and systems of power distribution, central station design and operations, urban and inter-urban railways and long distance power transmission.

In the second term of the fourth year a choice may be made between electro-chemistry and hydraulics. Each fourth year student is required to present a thesis giving the results of a suitable experimental investigation.

The subjects of instruction and the number of hours per week devoted to each subject are as follows:—

First Year.

	Hrs.		Hrs.
Descriptive Geometry	(p. 195), 4	Mathematics, 1, 2, 3, 8.	(p. 201), 10
English	(p. 198), 2	Physics	(p. 212), 2
Freehand Drawing	(p. 199), 3	Physical Laboratory	(p. 213), 4½
Lettering	(p. 199), 3	Shopwork	(p. 234), 7

Second Year.

	Hrs.		Hrs.
Chemistry	(p. 189), 3	Mechanical Drawing	(p. 203), 3
Kinematics of Machines.	(p. 202), 3	Physics	(p. 212), 2
Mapping	(p 215), 3	Surveying	(p. 215), 2
Materials of Construction	(p. 188), 1	Chemical Laboratory	(p. 189), 4
Mathematics, 4, 5, 9	(p. 202), 6	Physical Laboratory	(p. 213), 3
		Shopwork	(p. 234), 3

Third Year.

	Hrs.		Hrs.
Chemistry	(p. 190), 1	Physics	(p. 214),2
Continuous Currents and Commutating Machinery	(p. 195), 2	Theory of Structures.	(p. 191), 3
Machine Design	(p. 203), 2	Chemical Laboratory	(p. 190), 3
Mathematics, 6, 7, 10.	(p. 202), 2	Elec. Eng. Lab	(p. 197), 6
Mechanical Drawing	(p. 203), 3	Physical Laboratory.	(p. 214), 6
		Testing Laboratory	(p. 192), 3 (b)

FOURTH YEAR.

	HRS.		HRS.
Alternating currents and Alternating current machinery	(p. 195), 3	Machine Design	(p. 203), 2 (a)
Electro-Chemistry	(p. 190), 1 (b)	Mechanical Engineering	(p. 204), 2 (a)
Electrical Designing	(p. 196), 4	Thermodynamics	(p. 204), 2
Electric Lighting and Power Distribution	(p. 196), 3 (a)	Hydraulic Lab	(p. 193), 3 (a)
Electric Traction	(p. 196), 3 (b)	Electro-Chemical Lab	(p. 191), 3 (b)
Hydraulics	(p. 193), 2	Electrical Engineering Lab	(p. 197), 9
		Mech. Eng. Lab	(p. 205), 3

V. Mechanical Engineering.

The complete undergraduate course in Mechanical Engineering extends over four years, and provision is made for a fifth year or graduate course in advanced experimental and other work.

The first two years of the undergraduate course of instruction are largely occupied in preparation in Mathematics, Physics, Chemistry, Mechanics, Drawing, and Shopwork. During the second year one lecture and one exercise class per week are devoted to the Kinematics of Machines.

While motion without regard to force is treated in the Kinematic course, the action of external forces in producing or changing motion in the links of mechanism is considered in the third and fourth years, under the head of Dynamics of Machines. Two lectures per week are given in this subject in each year, and exercise classes are held for the purpose of working the problems necessary for illustration.

The work in Machine Design is carried on during the third and fourth years in conjunction with the practical instruction in mechanical designing and drawing in the Drawing Rooms.

A course of two lectures per week is given during the fourth year on Mechanical Engineering as applied to questions connected with Power Installations and Prime Movers. A large portion of the work of this course is supplementary to, and follows, the instruction given in Thermodynamics and Machine Design, which extends over the third and fourth years. (See p. 203.)

Instruction in Workshop Practice (see p. 234) is given in each of the four years. It is of a systematic nature, and is intended to prepare for, but by no means to replace, that prac-

tical experience of workshop operations on a commercial basis which every mechanical engineer must obtain for himself.

The work of the lecture rooms is illustrated throughout the course by experimental work carried out by the student, and by demonstrations in the laboratories of the department.

Arrangements are made for occasional visits to power plants and manufactories of importance.

The subjects of instruction and the number of hours per week devoted to each subject are as follows:—

First Year.

	Hrs.		Hrs.
Descriptive Geometry	(p. 195), 4	Mathematics, 1, 2, 3, 8	(p. 201), 10
English	(p. 198), 2	Physics	(p. 212), 2
Freehand Drawing	(p. 199), 3	Physical Laboratory	(p. 213), 4½
Lettering	(p. 199), 3	Shopwork	(p. 234), 7

Second Year.

	Hrs.		Hrs
Chemistry	(p. 189), 3	Physics	(p. 212), 2
Kinematics of Machines	(p. 202), 3	Surveying	(p. 215), 2
Mapping	(p. 215), 3	Chemical Laboratory	(p. 189), 4
Materials of Construction	(p. 188), 1	Physical Laboratory	(p. 213), 3
Mathematics, 4, 5, 9	(p. 202), 6	Shopwork	(p. 234), 3
Mechanical Drawing	(p. 203), 3		

Third Year.

	Hrs.		Hrs
Dynamics of Machines	(p. 203), 2	Thermodynamics	(p. 204), 2
Continuous Currents and Commutating Machinery	(p. 195), 2	Theory of Structures	(p. 191), 3
Graphical Statics	(p. 192), 2 (a)	Elect. Eng. Laboratory	(p. 197), 3
Machine Design	(p. 203), 2	Testing Laboratory	(p. 192), 3
Mathematics, 6, 7, 10	(p. 202), 2	Mech. Eng. Laboratory	(p. 205), 3
Mechanical Drawing	(p. 203), 6	Shopwork	(p. 234), 6

Fourth Year.

	Hrs.		Hrs.
Designing	(p. 203), 6	Mechanical Engineering	(p. 204), 2
Dynamics of Machines	(p. 203), 5 (a) 2 (b)	Thermodynamics	(p. 204), 4
Hydraulics and Hydraulic Machinery	(p. 193), 2	Hydraulic Laboratory	(p. 193), 3 (b)
Machine Design	(p. 203), 2	Mech. Eng. Lab	(p. 205), 12
		Shopwork	(p. 234), 4

VI. Metallurgy.

The successful guidance of metallurgical industry requires, apart from considerations of business training and aptitude, an adequate knowledge of certain branches of Chemistry and Engineering as well as a familiarity with Metallurgy proper. In arranging the following course special prominence has been given to the chemical group of studies, so as to adapt it to the needs of students who intend to become metallurgical chemists. The Faculty has under consideration an alternative course in which more time will be given to Mechanical and Electrical Engineering. In the meanwhile students wishing to take Metallurgical Engineering are referred to the Metallurgical options of the Mining course. (See p. 182.)

In the first two years the studies are the same as in the several engineering courses in the Faculty.

Between the second and third years there is a short summer course in the Chemical Laboratories.

In the third and fourth years thorough instruction is given in Metallurgy, Assaying, Ore-dressing, Inorganic Chemistry, Geology and Mineralogy. In the fourth year nearly two days per week are spent in the Metallurgical and Ore-dressing laboratories and drawing room.

As a result of the adoption of the unified Engineering Course during the first two years, it has become possible to add certain Engineering subjects in the third and fourth years. Details of these changes (which are not included in the present time table) will be announced in due course.

This course is designed for students intending to enter Metallurgical Works on leaving College, and special prominence has been given to chemical as well as metallurgical studies. It is not intended, however, that all students who wish to study Metallurgy should enter this special course.

In Course VII (Mining Engineering) a considerable portion of the time is allotted to Metallurgical studies, and this time may be further increased by taking advantage of the Metallurgical options that are provided. By taking Course VII with Metallurgical options a student can gain a knowledge of both Mining and Metallurgy, and this is better in some cases than taking the Metallurgical course alone.

The subjects of instruction and the number of hours per week devoted to each subject are as follows:—

First Year.

	Hrs.		Hrs.
Descriptive Geometry	(p. 195), 4	Mathematics, 1, 2, 3, 8	(p. 201), 10
English	(p. 198), 2	Physics	(p. 212), 2
Freehand Drawing	(p. 199), 3	Physical Laboratory	(p. 213), 4½
Lettering	(p. 199), 3	Shopwork	(p. 213), 7

Second Year.

	Hrs.		Hrs.
Chemistry	(p. 189), 3	Physics	(p. 212), 2
Kinematics of Machines	(p. 202), 3	Surveying	(p. 215), 2
Mapping	(p. 215), 3	Chemical Laboratory	(p. 189), 4
Materials of Construction	(p. 188), 1	Physical Laboratory	(p. 213), 3
Mathematics, 4, 5, 9	(p. 202), 6	Shopwork	(p. 234), 3
Mechanical Drawing	(p. 203), 3		

Third Year.

	Hrs.		Hrs.
Chemistry	(p. 190), 3	Assaying Laboratory	(p. 190), 4 (b)
Geology	(p. 199), 3	Chemical Laboratory.	(p. 205), 17 (a), 10 (b), 3 (d)
Geological Excursions	(p. 200), 4 (c)	Determinative Mineralogy	(p. 208), 3
Geological Museum	(p. 200), 1 (d), 2 (b)	Ore-Dressing Lab	(p. 206), 2 (b)
Mechanical Drawing	(p. 203), 3	Testing Lab	(p. 192), 3 (b)
Metallurgy	(p. 205), 2 (a), 1 (b)		
Mineralogy	(p. 208), 2		
Ore-Dressing	(p. 208), 2 (b)		

Fourth Year.

	Hrs.		Hrs.
Chemistry	(p. 190), 2	Ore Deposits	(p. 200), 3 (b)
Designing	(p. 203), 3 (b)	Ore-Dressing and Milling	(p. 209), 2 (a)
Mechanical Engineering	(p. 204), 2 (a)	Chemical Laboratory.	(p. 191), 12 (a), 6 (b)
Metallurgy	(p. 206), 3 (a), 8 (b)	Metallurgical Laboratory	(p. 206), 5 (a), 11 (b)
Metallurgical Colloquium	(p. 206, 1	Ore-Dressing Laboratory	(p. 206), 5 (a)
Mineralogy	(p. 208), 2 (a)	Petrography	(p. 200), 1 (a)
Mining and Metallurgical Machinery	(p. 209), 2 (a) 1 (b)	Petrographical Lab.	(p. 200), 3 (b)

VII. Mining Engineering.

(With Options in Metallurgical Engineering).

1. The first two years of the undergraduate course in Mining Engineering are mainly devoted to Mathematics, Mechanics, Physics, Elementary Chemistry, etc., as it is deemed necessary that the students should master the general principles underlying all scientific work before they attack the somewhat complex and specialized subjects of the professional course.

In the third year elementary courses in both Mining and Metallurgy are given, and a thorough course in Fire Assaying, but again the chief work of the year is in Applied Mechanics, Mechanical Engineering, Geology, Mineralogy and Chemistry.

The fourth year, on the other hand, is very largely given up to special work in Mining and Metallurgy, and, in addition to the lectures and demonstrations, nearly two days per week are spent in the Mining and Metallurgical laboratories and the drawing room.

A number of options are arranged in the fourth year, so that students who are interested in Metallurgical work can elect to take advanced work in that subject in place of Advanced Hydraulics, Physiography and part of the Mining. Students who wish to fit themselves for both Mining and Metallurgy, or who wish to become Metallurgical Engineers, are advised to take this course instead of Course VI. (page 180), which is a chemical rather than an engineering course.

The subjects of instruction and the number of hours per week devoted to each subject are as follows:—

First Year.

	Hrs.		Hrs.
Descriptive Geometry	(p. 195), 4	Mathematics, 1, 2, 3, 8.	(p. 201), 10
English	(p. 198), 2	Physics	(p. 212), 2
Freehand Drawing	(p. 199), 3	Physical Laboratory	(p. 213), 4½
Lettering	(p. 199), 3	Shopwork	(p. 234), 7

Second Year.

	Hrs.		Hrs.
Chemistry	(p. 189), 3	Physics	(p. 213), 2
Kinematics of Machines.	(p. 202), 3	Surveying	(p. 215), 2
Mapping	(p. 215), 3	Chemical Laboratory	(p. 189), 4
Materials of Construction	(p. 188), 1	Physical Laboratory	(p. 213), 3
Mathematics, 4, 5, 9	(p. 202), 6	Shopwork	(p. 234), 3
Mechanical Drawing	(p 203), 3		

THIRD YRAR.

	Hrs.		Hrs.
Chemistry	(p. 190), 1 (b)	Surveying	(p. 215), 2
Geology	(p.) 199, 3	Theory of Structures.	(p. 191), 3
Graphical Statics	(p. 192), 2 (a)	Transportation.	(p. 217), 2 (b)
Machine Design	(p. 203), 2	Chemical Laboratory	(p. 190), 3
Mapping	(p. 215), 6 (a)	Determinative Mineralogy Laboratory.	(p. 208), 3
Mathematics, 6, 7, 10.	(p. 202), 2	Fire Assaying Lab.	(p. 205), 4 (b)
Mechanical Drawing.	(p. 203), 3	Geological Excursions & Museum	(p. 200), 3 (c), 1 (d), 2 (b)
Metallurgy	(p. 205), 2 (a)	Ore-Dressing Lab.	(p. 209), 2 (b)
Mineralogy	(p. 208), 2	Testing Lab	(p. 192), 3 (b)
Mining	(p. 209), 1		
Ore-Dressing	(p. 208), 2 (b)		

FOURTH YEAR.

	Hrs.		Hrs.
Designing	(p. 203), 3 (a), 6 (b)	Ore-Dress. & Milling.	(p. 209), 3 (a)
Canadian Geology	(p. 00), 1 (a)	Physiography	(p. 201), 1 (b) opt.
Hydraulics.	(p. 193), 1 (a), 1 (b) opt.	Petrography	(p. 200), 1 (a)
Hydraulic Machinery	(p. 194), 1	Mechanical Eng.	(p. 204), 2 (a)
Metallurgy	(p. 206), 1 (a), 2 (b)	Chemical Lab.	(p. 191), 9 (a), 6 (b)
Metallurgy Opts	(p. 206), 1 (a , 3 (b)	Hydraulic Laboratory	(p. 193), 3 (a)
Mineralogy	(p. 208), 2 (a)	Metal. Lab.	(p. 206), 4 (a) } 8 (b)
Mining	(p. 209), 2 (a), 4 (b)	Ore-Dress Lab.	(p. 210), 4 (a) }
Mining Mach.	(p. 209), 2 (a), 3 (b)	Petrographical Lab.	(p. 200), 3 (b)
Ore-Deposits	(p. 200), 4 (b)		

VIII. Transportation.

The following tables give the details of the proposed course in Transportation, but they are tentative only and are subject to modification.

FIRST YEAR.

	Hrs.		Hrs.
Descriptive Geometry	4	Mathematics	10
English	1	Physics	2
Freehand Drawing	3	Physical Laboratory	4½
Lettering	3	Shopwork	7

SECOND YEAR.

	Hrs.		Hrs.
Chemistry	(p. 189), 3	Physics	(p. 213), 2
Kinematics of Machines.	(p. 202), 3	Surveying	(p. 215), 2
Mapping	(p. 215), 3	Chemical Laboratory	(p. 189), 4
Materials of Construction	(p. 188), 1	Physical Laboratory	(p. 213), 3
Mathematics, 4, 5, 9	(p. 202), 6	Shopwork	(p. 234), 3
Mechanical Drawing	(p. 203), 3		

The curriculum for the first two years is identical with that for all other engineering students in the Faculty.

THIRD YEAR.

Civil.

Machine Design.
Mathematics.
Mechanical Engineering.
Railway Economics; Theory of Location.
Surveying.
Theory of Structures.
Transportation.
Graphical Statics.
Mechanical Drawing.
Railway plans, profiles, estimates, track design, etc.
Shopwork.
Testing Laboratory.
Surveying fieldwork.

Mechanical.

Kinematics and Dynamics of Machines.
Machine Design.
Mathematics.
Mechanical Engineering.
Railway Economics; Theory of Location.
Theory of Structures.
Transportation.
Mechanical Eng. Lab. (Kin. and Dyn.).
Draughting Room Work.
Graphical Statics.
Mechanical Drawing.
Railway plans, profiles, estimates, track design, etc.
Shopwork.
Testing Laboratory.

FOURTH YEAR.

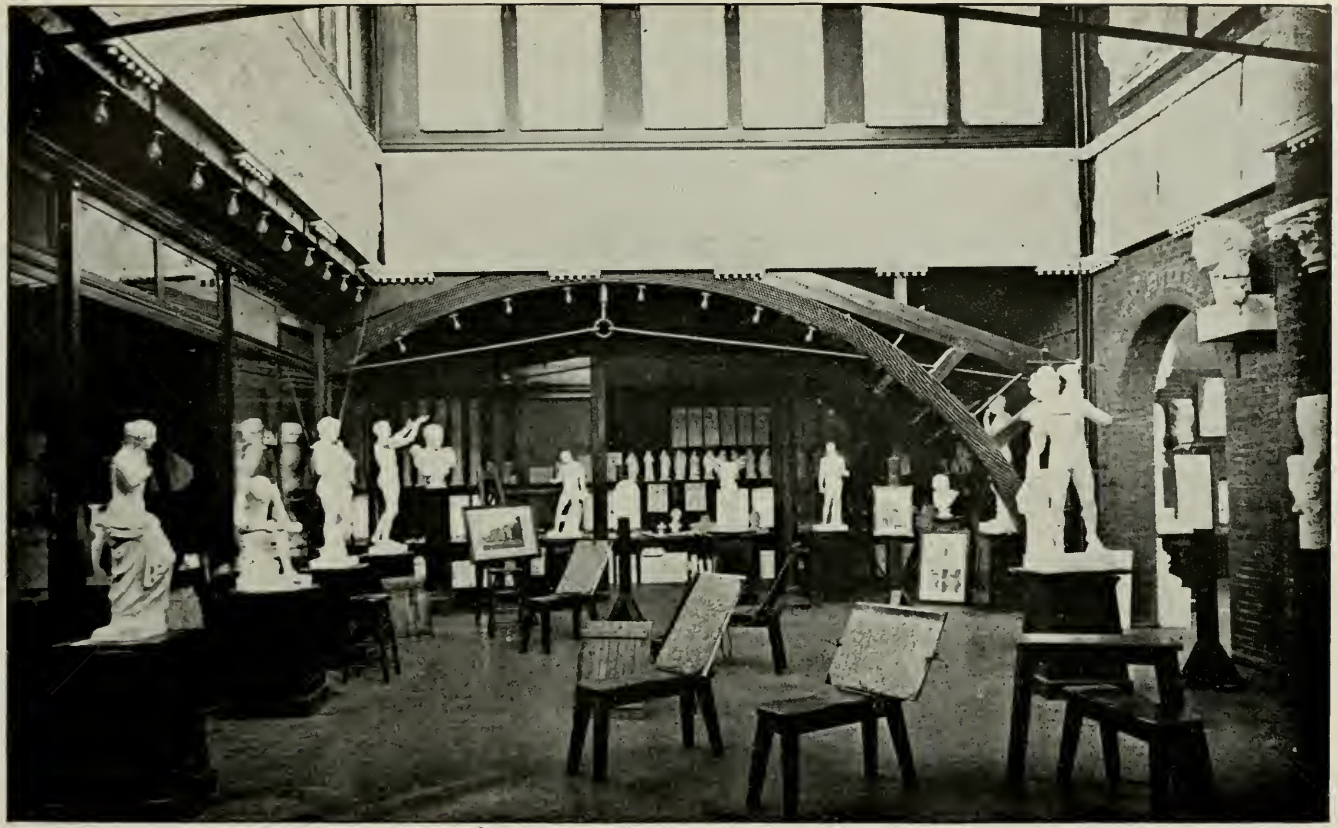
Civil.

Electrical Engineering.
Hydraulics and Hyd. Machy.
Railway Const. and Maint. and Structures.
Railway Management.
Railway organization, operation, etc.
Signalling; Law and Accounting.
Theory of Struc. and Bridge Design.
Transportation.
Elect. Eng. Lab.
Hydraulic Lab.
Mechl. Eng. Lab.
Station, Yard and Terminal Design.
Structural Design.
Testing Lab.

Mechanical.

Dynamics of Machines.
Electrical Engineering.
Hydraulics and Hyd. Machy.
Locomotive Engineering, etc.
Machine Design.
Prime Movers.
Railway Const. and Maint. and Struct.
Railway Management.
Railway organization, operation, etc.
Shop design, equipment and practice.
Signalling; Law and Accounting.
Thermodynamics.
Designing; Dyn. and Thermo.
Elect. Eng, Lab.
Hydraulic Lab.
Mechl. Eng. Lab.

Student Apprentices.—It is intended that students taking the Course in Transportation shall enter the service of the



Freehand Drawing Room, Architectural Department.

Railway Companies, as apprentices, during the summer vacations, so as to gain a preliminary insight into the actual working of the several departments.

Graduate Apprentices.—It is also proposed that the students, on graduation, shall serve a probationary term as "graduate apprentices" for a period of one or two years.

§ XI. COURSES OF LECTURES.

N.B.—The following courses are subject to such modfications during the year as the Faculty may deem advisable.

I. Architecture.

PROFESSOR:—PERCY E. NOBBS.
LECTURER:—H. F. ARMSTRONG.

The work of the First Year, which includes Mathematics, English, French, History and Physics in the Arts Faculty, and Drawing and Shop-work in the Applied Science Faculty is fully detailed on pages 102, 108, 129, 131, 199 and 234. During the last three years the courses of study for architectural students are as follows:—

1. *History of Architecture* SECOND YEAR. (First Term.) Egypt, Assyria, Babylon, Greece. (Second Term.) Rome, Pompeii, the Early Christian and Byzantine periods. Mr. Nobbs.

Text Book:—"A History of Architecture," by Banister Fletcher (Batsford).

Reference Books:—Fergusson: "History of Ancient and Mediæval Architecture"; Anderson and Spiers, "Architecture of Greece and Rome"; Perrot and Chipiez, "Histories of Ancient Art"; Gardner, "Ancient Athens"; Stuart and Revett, "Antiquities of Athens"; Middleton, "Ancient Rome"; Choisy, "L'Art de Bâtir chez les Romans"; Violet-le-Duc, "Lectures on Architecture"; Baldwin Brown, "From Schola to Cathedral".

THIRD AND FOURTH YEARS together (alternately).

(A) *Gothic Architecture.*. (First Term.) The Romanesque Period in Europe. The Gothic Periods in England. (Second Term.) The Gothic Periods in France and

Spain. The Revival in Italy. The Gothic Revivals of the XIXth Century. Mr. Nobbs.

Text Books:—Banister Fletcher, "A History of Architecture" (Batsford); E. S. Frior, "History of Gothic Art in England (Bell); Moore, "Gothic Architecture" (Macmillan).

Reference Books:—Fergusson, "History of Ancient and Mediæval Architecture"; G. E. Street, "Royal Academy Lectures"; Rickman, "Gothic Architecture"; Sharpe, "Architectural Parallels"; Smith and Poynter, "Architecture, Gothic and Renaissance"; G. E. Street, "Brick and Marble of N. Italy"; Ruskin, "Stones of Venice."

(B) *Renaissance Architecture.* (First Term.) The Renaissance in Italy, France and England. (Second Term.) The late Renaissance in France and England and the XIXth. Century movements in Europe and America. Mr. Nobbs.

Text Books:—Banister Fletcher, "A History of Architecture" (Batsford); Anderson, "Renaissance Architecture in Italy" (Batsford); Bloomfield, "Short History of Renaissance Architecture in England" (Bell).

Reference Books:—Fergusson, "History of Modern Architecture"; Statham, "Modern Architecture"; Sturgis, "European Architecture"; Berty, "La Renaissance Monumental en France"; Gotch, "Early Renaissance Architecture in England"; Bloomfield, "Renaissance Architecture in England.

2. *Theory and Evolution of Architectural Forms.* SECOND YEAR. (First Term.) The Origin of Art: The Moral and Material Logic of Ornament. Principles of Design. (Second Term.) The evolution of column and lintel Architecture. The evolution of arched and vaulted Architecture. Mr. Nobbs.

Text Book:—G. Baldwin Brown, "The Fine Arts" (Murray).

Reference Books:—(As in History of Architecture).

3. *Building Construction.* SECOND YEAR. (First Term.) Masonry; Concrete; Brickwork; Carpentry for floors and roofs. (Second Term.) Joinery for doors, casement and sash windows, stairs, etc.

Reference Books:—Rivington, "Building Construction"; Kidder, "Building Construction and Superintendence"; Clark, "Building Superintendence"; Martin, "Details of Building Construction"; Chandler, "Construction Details"; Mitchell, "Plates of Building Construction";

4. *The Building Trades.* THIRD YEAR. The Building Construction of the Second Year will, in a sense, be continued in the course on the materials and techniques of the trades. Details will be prepared for stone carvers and wood carvers, for plaster work and wrought iron and beaten metal and cast bronze; for decorative joinery and fittings; for marble pavements; leaded glazing, stained glass, and simple cabinet work. Mr. Nobbs.

Reference Books:—Dobson, "Masonry and Stonecutting"; Starkie Gardner, "Wrought Iron Work"; Millar, "Plastering, Plain and Decorative"; Day, "Windows, a Book about Stained Glass."

5. *Ornament and Decoration.* FOURTH YEAR. (First Term.) The Ornament of various periods. (Second Term.) The Evolution of Mural Decoration. Heraldry, Ancient and Modern.

Designs for decoration will be prepared in connection with this course, which will in this way follow up the work in the course on the Building Trades. Mr. Nobbs.

Text Books:—Day, "Anatomy of Pattern" (Batsford); Eve, "Decorative Heraldry" (Bell).

Reference Books:—Violet-le-Duc, "Dictionnaire Résonné"; Owen Jones, "Grammar of Ornament"; Walter Crane, "The Basis of Design"; Valance, "William Morris, his Art, etc."; Meyer, "Hand-Book of Ornament."

6. *The Science of Planning.* FOURTH YEAR. The planning of stables, farm buildings, cottages, workmen's dwellings, villas, country houses, city tenements, office buildings, schools, colleges, churches, hospitals, baths, banks, fire-stations, libraries, town halls, public buildings considered in the light of the governing principles of each type. For his diploma design the student will prepare a complete set of drawings for a building of moderate dimensions in connection with this course. Mr. Nobbs.

Reference Books:—Marks, "Principles of Planning"; Statham, "Modern Architecture"; Stevenson, "House Architecture"; Also back numbers of the Building Papers, etc., etc.

7. *Professional Practice.* Fourth Year. (First Term.) Conditions of Contract; Specifications; Bills of quantities. (Second Term.) Building By-laws; Architectural Jurisprudence.

8. *Hygiene.* Third Fear. (First Term.) Light and Air, Water, Sanitary Plumbing. Drain plans will be prepared. (Second Term.) Gas, Electric Light, Heating and Ventilation. A Heating plan will be prepared. Mr. J. W. Hughes.

Reference Books:—Lister Sutcliffe, "Modern House Construction"; Stevenson and Murphy, "Public Health"; Carpenter, "Heating and Ventilating of Buildings."

Structural Engineering.

Special courses of lectures will be given in this subject on Wednesdays at 12 p.m., and Fridays at 2 p.m., as follows:—

Second Year. (First Term.) Masonry, Concrete, Brickwork, Carpentry for floors and roofs.

(Second Term.) Joinery for doors, casements and sash windows, stairs, etc.

Reference Books:—

Rivington, "Building Construction"; Kidder, "Building Construction and Superintendence"; Clark, "Building Superintendence"; Martin, "Details of Building Construction"; Chandler, "Construction Details"; Mitchell, "Plates of Building Construction."

Third Year. (First Term.) Materials, Foundation, Piers, Arches, Retaining Walls, Framed Timber, Roofs and Floors.

(Second Term.) Iron Roof Truss, Steel Frame Buildings, and Fire-proof construction.

The Drawing period in connection with this course will be devoted to the designing of lumber-framed trusses and joints in iron-work.

Reference Books:—

Baker, "Masonry Construction"; Rivington, Building Construction."

Fourth Year. Special designs will be prepared for iron roofs and steel frame structures.

Reference Books:—

Baker, "High Office Buildings"; Greene, "Roofs and Bridges"; Merriman, "Theory of Structures"; Bovey, "Theory of Structures and Strength of Materials."

Special designs will be prepared in the drawing-room illustrating the several subjects of the lectures.

Architectural Equipment.—The architectural equipment consists of a representative collection of casts, comprising architectural detail and ornament, as well as figure sculpture; of photographs and illustrations; an arc-light electric lantern; a large collecion of slides, diagrams, and models; and a library for architectural study. (See § XIII.)

2. Chemistry and Assaying.

Professors:—B. J. Harrington.
J. Wallace Walker.
Assistant Professor:—Nevil Norton Evans.
Lecturer:—Douglas McIntosh.
Lecturer:—D. McIntosh.
Demonstrators:—W. Scott Hutchison.
W. Lloyd Lodge.
F. M. G. Johnson.
S. J. Lloyd.
R. W. Lord.
Lecture Assistant:—M. Violette Dover.

Students in all the courses of Applied Science are expected to take up the study of Chemistry in the second year, having previously acquired a knowledge of some branches of Physics in the first year of their course. They attend a course of lectures, supplemented by tutorial classes, on the laws of chemical combination, chemical formulæ and equations, the preparation and properties of the more important elements and their compounds, etc. They must also devote at least one morning or afternoon a week, throughout the session, to practical work in the laboratory, where they learn the construc-

tion and use of ordinary apparatus, and perform a series of experiments designed to cultivate the powers of observation and deduction. Many of the experiments involve accurate well supplied with balances. During the second term considerable attention is also devoted to the subject of Qualitative Analysis.

Text-book:—Holleman's Inorganic Chemistry.

The lectures in the third year comprise:—

(*a*) A course dealing mainly with the methods and reactions employed in Chemical Analysis, being explantory of the work done in the laboratory; one lecture a week during the session. (*b*) A course on Industrial Chemistry; two lectures a week during the first term, and one during the second. (*c*) An elementary course on Organic Chemistry; one lecture a week during the session. (*d*) A course on the composition and analysis of Iron and Steel; one lecture a week during the second term.

The laboratory work of the third year comprises:—

(*a*) An extensive course of Analytical Chemistry, including gravimetric, volumetric and electrolytic methods. (*b*) An elementary course on the preparation of Organic Compounds. (*c*) Water Analysis and Analysis of Iron and Steel, both in the second term. *Students in the Mining Course are exempt from Organic Chemistry.*

Lectures in the fourth year comprise:—

(*a*) A systematic course on Organic Chemistry, two lectures a week. (*b*) A course on Physical Chemistry, two lectures a week. (*c*) A course on Mineral Analysis. (*d*) A short course on Gas Analysis. In the lectures on Organic Chemistry special attention is paid to the commoner substances which find application in the arts. The lectures on Physical Chemistry are divided into two parts. In the first term they include a study of such physical properties of gases, liquids, and solids as are known to depend upon their chemical constitution; also Thermo-Chemistry and the law of Mass Action. The second term is devoted to Electro-Chemistry, theoretical and applied. The lectures will be based upon the application of the gaseous laws to solutions. This will be followed by descriptions of the most recent applications of electricity to the production of metals and chemicals.

Laboratory work in the fourth year will be arranged to suit the requirements of students. Those intending to prosecute organic work will take up a complete course of Organic Preparations and Analysis, but they must also spend some time on the essential physico-chemical methods; while students of Physical Chemistry must spend enough time in the organic laboratory to become familiar with the chief methods of organic work. Those intending to devote themselves to Mineral Chemistry will omit the Organic Chemistry, but must study the more important physico-chemical methods, and devote a large amount of time to advanced Mineral Analysis. All students in the Chemistry Course must take up Gas Analysis.

Laboratory courses will also be provided for students who wish to make a specialty of any particular branch of Industrial Chemistry, such as Chemistry of Oils, Iron and Steel Analysis, Bleaching, Papermaking, and manufacture of substances of Electro-chemical and other methods.

Of the above fourth year subjects students in the Mining Course take only the lectures and practical work in Mineral Analysis.

3. Civil Engineering and Applied Mechanics.

PROFESSOR:—HENRY T. BOVEY.
ASSISTANT PROFESSORS:—H. M. MACKAY.

LECTURERS:—W. MUIR EDWARDS. C. M. MCKERGOW
DEMONSTRATOR:—CHAS. H. SUTHERLAND.

1. *Theory of Structures.*—The lectures on this subject embrace:—

(*a*) The analytical and graphical determination of the stresses in the several members of framed-structures, both simple and complex, as, *e.g.*, cranes, roof and bridge trusses, piers, etc.

(*b*) The methods of ascertaining and representing the shearing forces and bending moments to which the members of a structure are subjected.

(*c*) A study of the strength, stiffness and resistance of materials, including a statement of the principles relating to work, inertia, energy, together with a discussion of the nature and effect of the different kinds of stress, and the resistance offered by a material to deformation and to blows.

(*d*) The design and proper proportioning of beams, pillars, shafts, roofs, bridge piers and trusses, arches, arched ribs, masonry dams, foundations, earth works, and retaining walls.

Graphics.—A complete course of instruction is given in the graphical analysis of arches and of bridge, roof, and other trusses, and in the graphical solution of mechanical problems. It is therefore possible for the student to apply both the analytical and graphical methods of treatment, and thus to verify the accuracy of his calculations. Dr. Bovey and Mr. Mackay.

Text Book:—Bovey's Theory of Structures and Strength of Materials.

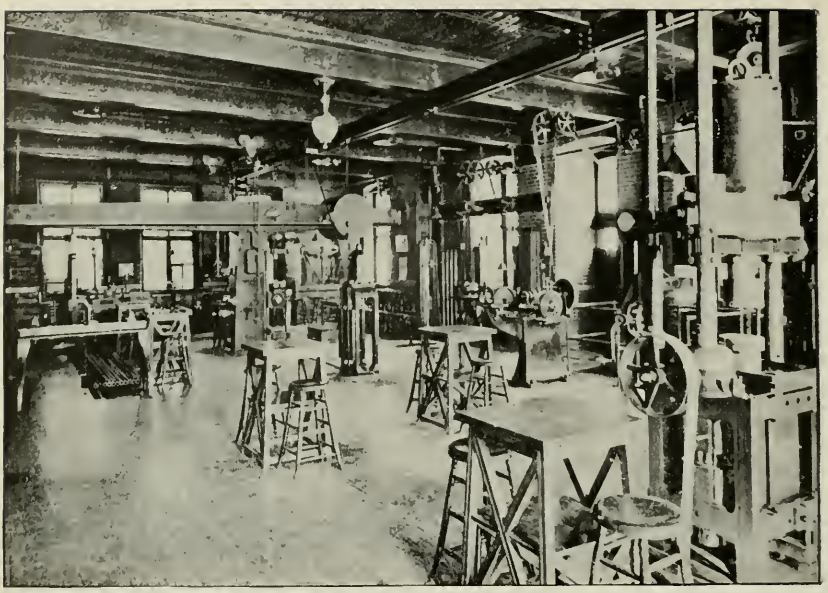
The Laboratory Work (see § XII.) is as follows:—

Fourth Year.—During the fourth year students are expected to engage in a research upon the physical properties of a material of construction, with special reference to the form and position of such material in the structure; or research may be taken up on the flow of water, through orifices and pipes, over weirs, and on the efficiency of vanes, pumps and hydraulic motors.

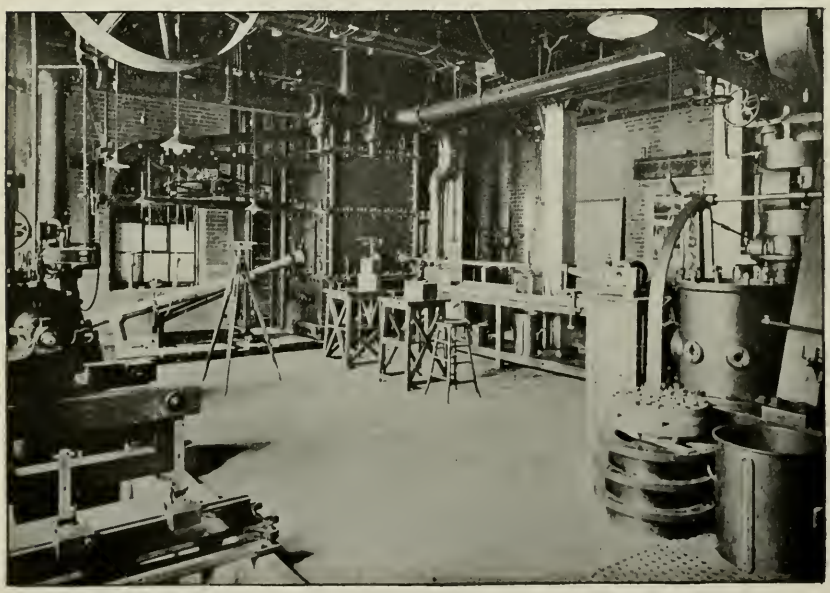
Third Year.—During the third year a systematized course of laboratory instruction is given in which students carry out for themselves a series of tests upon engineering materials.

The course comprises:—

(a) Linear measurements by Whitworth measuring machine, dividing engine, and micrometer gauges.
(b) Calibration of extensometers, gauges, and the like.
(c) Tension tests of long wires above and below the elastic limit.
(d) Tensile and compressive tests of cast iron, wrought iron, steel, brass, copper, timber, stone, bricks, and cements.
(*e*) Transverse tests of beams under different conditions of loading and fixing.
(*f*) Shearing tests of iron, steel, timber, stone, and the like.
(*g*) Torsional tests of metals.
(*h*) Tests of materials under compound stress.
(*i*) Tests of chains, wire cables, spikes, screws, and the like.
(*j*) Pillar tests under various conditions of loading and fixing.
(*k*) Determination of the various moduli of materials by static and dynamic methods.



An Engineering Testing Laboratory.



Hydraulic Laboratory.

(*l*) Determination of centres of gravity, moments of inertia, and moments of resistance.

(*m*) The testing of concrete and cement in accordance with standard specifications.

2. *Bridge Construction.*—A course of lectures is given on practical bridge construction, including:—

(*a*) The reasons governing the selection of a particular type of bridge;

(*b*) A discussion of the loads to which the bridge will be subjected;

(*c*) The calculations of the stresses in the several members of the bridge;

(*d*) The determination of the sectional areas and forms of the members;

(*e*) The design of the connections;

(*f*) The preparation of complete engineering drawings.

Dr. Bovey and Mr. H. M. Mackay.

3. *Hydraulics.*—The student is instructed in the fundamental laws governing the equilibrium of fluids, and in the laws of flow through orifices, mouthpieces, submerged (partially or wholly) openings, over weirs, through pipes, and in open channels and rivers. The impulsive action of a free jet of water upon vanes, both straight and curved, is carefully discussed, and is followed by an investigation of the power and efficiency of the several hydraulic motors, as, *e.g.,* reaction wheels, pressure engines, vertical water wheels, turbines, pumps, etc. Dr. Bovey.

Text Book:—Bovey's Hydraulics.

The laboratory work (see also § XII) will include the following:—

(*a*) *Flow through orifices.*—The determination of the co-efficient of discharge, velocity, etc.

(*b*) *Flow over weirs.*—The determination of the co-efficient of discharge with and without side contraction. Also the measurement of the section of the stream.

(*c*) *Flow through pipes.*—The determination of critical velocities and of the effect upon the flow, of angles, bends, and sudden changes in section.

(*d*) *Impact.*—The determination of the co-efficient of impact.

(*e*) *Motors, etc.*—The determination of the efficiency of Pelton and other wheels, of vortex and other turbines, of centrifugal and other pumps, etc.

4. *Hydraulic Machinery.*—The lectures in this course apply the principles of hydraulics to explain the construction and action of hydraulic presses, accumulators, lifts, rams, riveting machinery, pumps, multi-cylinder engines, workshop tools, turbines, centrifugal pumps, and the like. The design of one or two types is considered in detail.

The hydraulic transmission of power and the design and construction of central stations is also included. Mr. McKergow.

5. *Municipal Engineering.*—The lectures on this subject will embrace:—

(*a*) *Water Supply.*—The quantity and quality of water; systems and sources of supply; rainfall and evaporation; storage as related to the supplying capacity of water-sheds; natural and artificial purification; distribution, including the location of mains, hydrants, stop-valves, etc.; combined or separate fire and domestic systems; details of construction, including dams, reservoirs, pumps, etc.; preliminary surveys, estimates of cost, statistics, etc.

(*b*) *Sewerage of Cities and Towns.*—The various systems for the removal of sewage; special methods in use for its treatment and ultimate disposal; the proportioning and construction of main, branch, and intercepting sewers; man-holes, flush-tanks, catch-basins, etc.; materials used in construction; estimates of cost. Mr. Edwards.

4. Descriptive Geometry.

Lecturers:—C. H. McLeod.
H. F. Armstrong.

This course deals with the methods of representing objects on one plane so that their true dimensions may be accurately scaled. It discusses the methods employed in the graphical

solution of the various problems arising in engineering design, and deals generally with the principles underlying all constructive drawing. The methods taught are illustrated by applications to practical problems. It is the aim of the work to develop the imagination in respect to the power of mentally picturing unseen objects, and, incidentally, precision in the use of the drawing instruments is attained.

First Year.—Geometrical drawing; problems on straight line and plane; projections of plane and solid figures; curved surfaces and tangent planes; intersections of surfaces; axometric projections; shades and shadows.

Third Year.—Mathematical perspective and perspective of shadows, etc.; spherical projections and the construction of maps. (This course is given under Surveying and Geodesy, see XI, 15, p. 215). Mr. Kerry.

5. Electrical Engineering.

PROFESSOR:—R. B. OWENS.
ASSISTANT PROFESSOR:—L. A. HERDT.
DEMONSTRATORS:— ————————
R. W. BOYLE.

UNDERGRADUATE COURSES.

1. *Continuous Currents and Commutating Machinery.*—The theoretical consideration of continuous current flow in circuits of different kinds; the laws of electro-magnetism and of the magnetic circuit; the action and principles of design of commutating and rectifying machinery:—required of students in Electrical and Mechanical Engineering.

T. and Th., 9-10—Mr. Herdt. First and second terms.

Text Books:—Magnetic Induction of Iron and other Metals, J. A. Ewing; Continuous Current Dynamos, J. Fisher-Hinnen; Design of Dynamos, S. P. Thompson.

2. *Alternating Currents and Alternating Current Machinery.* The theoretical consideration of variable current flow in circuits containing resistance, inductance and capacity under different conditions; the action and principles of design of synchronous and induction machinery: — required of students in Electrical Engineering. Must be preceded by course 1.

W., Th. and F., 11-12—Professor Owens. First and second terms.

Text Books:—Theoretical Elements of Electrical Engineering, C. P. Steinmetz; Alternating Currents and Alternating Current Machinery, D. C. Jackson; The Induction Motor, B. A. Behrend.

3. *Electric Lighting and Power Distribution.*—The design and operation of central and isolated lighting and power plants; the design and construction of distributing lines; arc and incandescent lighting; the appliances of stationary motors to general power purposes:—required of students in Electrical Engineering. Must be preceded by course 1.

T., W. and F., 10-11—Mr. Herdt. First Term.

Text Books:—Electric Lighting, F. B. Crocker; Electric Power Transmission, Louis Bell.

4. *Electric Traction.*—Determination of power required to accelerate and draw, at different speeds, loads under varying track and other conditions; car equipment as affected by nature of service; track construction; systems of distribution for urban and for heavy through traffic conditions:—required of students in Electrical Engineering. Must be preceded by course 1.

T., W. and F., 10-11—Mr. Herdt. Second term.

Text Books:—The Electric Railway, Louis Bell. Students are furnished with supplementary notes.

5. *Electrical Designing.*—(*a*) Detailed electric and magnetic calculations and complete drawings for a commutating machine, a synchronous machine and a transformer or an induction motor:—required of students in Electrical Engineering. Must be preceded by course 1, and taken in conjunction with course 2.

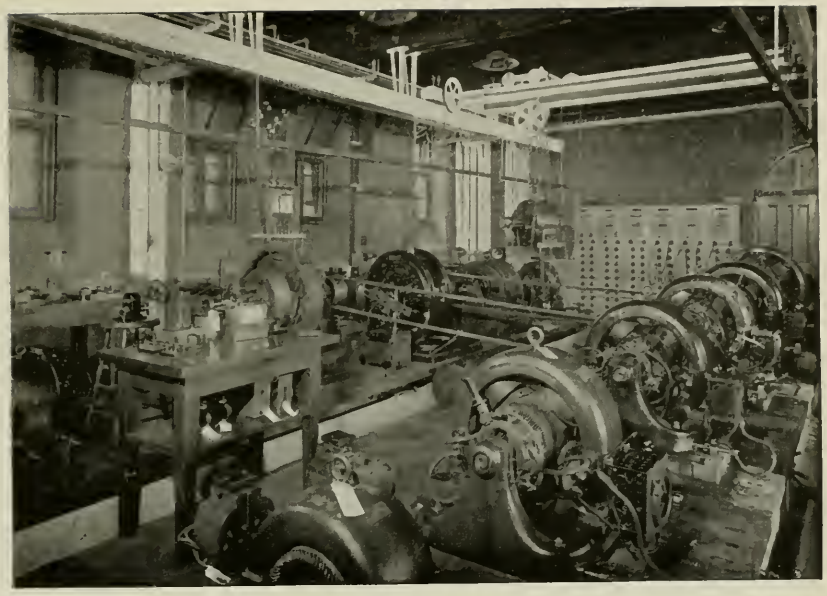
Saturday, 9-1—Professor Owens. First and second terms.

Text Books:—Design of Dynamos, S. P. Thompson; Supplemented by MS. notes and data.

(b) Complete plans and estimates for an isolated or central lighting or power plant, including distributing system:—required of students in Electrical Engineering. Must be preceded by course 1 and taken in conjunction with courses 3 and 4.

Mr. Herdt. First and second terms.

Text Books:—No text books. Notes and data are furnished.



Alternating Current Dynamo Laboratory.

Electrical Standardizing Room.

6. *Electrical Engineering Laboratory.*—(*a*) Includes such tests of direct current metering and controlling devices, dynamos, motors, boosters, motor-generators, dynamotors, converters, open and closed coil, constant current machines and arc and incandescent lamps as illustrate the principles of their action and the limits of their proper use; also complete test of direct current isolated or central lighting or power plant:—required of students in Electrical Engineering. Must be taken in conjunction with or be preceded by course 1.

T., Th., 2-5—Professor Owens, Mr. Herdt. First and second terms.

Text Books:—Testing of Dynamos and Motors, Charles F. Smith. In addition, students are furnished with special laboratory notes and forms.

(*b*) Includes experiments on variable current flow in circuits of different kinds; tests of alternators, synchronous motors and converters, compensators, induction motors, transformers, frequency and phase-changing apparatus, potential regulators, reaction coils, etc., and complete test of alternating lighting or power plant:—required of students in Electrical Engineering. Must be preceded by course 1 and taken in conjunction with course 2.

M., W. and F., 2-5—Professor Owens, Mr. Herdt. First and second terms.

Text Books:—Practical Alternating Current Testing, Charles F. Smith. Students are also furnished with special laboratory notes and forms.

7. *Telegraphy and Telephony.*—Single, duplex, quadruplex and multiplex telegraph systems, telephone systems, current generation for telegraph and telephone work, central telegraph and telephone stations; line construction and testing; special systems of signalling:—optional. One lecture per week, at time to be arranged—Professor Owens. First term.

Text Books:—Telegraphy, Preece and Sievewright; A manual on Telephony, Preece and Stubbs.

Graduate Courses.

8. *Special problems in the theory and practice of alternating current working.*—Two lectures per week at times to be arranged—Professor Owens. First and second terms.

9. *Special Problems in Electric Traction.*—One lecture per week at time to be arranged—Mr. Herdt. First and second terms.

10. *Advanced Laboratory Investigations.*—Special research work by students having necessary previous training—Professor Owens, Mr. Herdt.

11. *Electrical Engineering Seminar.*—Weekly meetings are held, at which students present carefully prepared papers upon current engineering literature and special topics in connection with their studies or their laboratory work—Professor Owens, Mr. Herdt.

6. English Composition.

LECTURER:—JOHN W. CUNLIFFE.

In view of the importance of accuracy of expression to those engaged in scientific or professional work, a course on English Composition is prescribed for all undergraduates of the First Year who do not give evidence of having already reached the required standard of proficiency, either by university certificates, or by passing a special exemption examination. This examination will be held in the Engineering Building (Room No. 52) on Wednesday, Sept. 20, at 11 o'clock.

The students not so exempted will be assigned to a section which will meet once a week for practice and instruction in composition. The handbook used is Carpenter's Elements of Rhetoric, First High School Course (Macmillan Co.), and every member of the class is required to provide himself with a copy.

After Christmas the class will be divided into Elementary and Advanced Sections. The Elementary Section will meet twice a week; for members of the Advanced Sections Pearson's Principles of Composition (D. C. Heath and Co.) is recommended.

Satisfactory results in class and essay work must be obtained before entry into the Second Year.

Summer Reading.—During the vacation, undergraduates entering the Second Year will study Cunliffe's Nineteenth Century Prose (Copp, Clark Co.), and will be examined thereon at the beginning of their second session. The marks obtained in this examination will be reckoned in determining the rela-

tive standing at the sessional examinations at the end of the Second Year.

French Students may substitute for the above the following:—

Corneille—Le Cid, Horace.

V. Hugo—Hernani, Ruy Blas.

Balzac—Eugenie Grandet.

Students will also be required to possess some knowledge of the lives of the above French authors.

Students who have already taken equivalent courses in this, or in any other university may be exempted from a part or from the whole of the above work, on written application to the Dean.

7. Freehand Drawing, Lettering, Etc.

Assistant Professor:—H. F. Armstrong.

In the *Freehand Course,* the object is to train the hand and eye so that students may readily make sketches from parts of machinery, etc., either as perspective drawings in light and shade, or as preparatory dimensioned sketches from which to make scale drawings.

In the *Lettering Course*, plain block alphabets, round writing, and titles, will be chiefly dealt with. In this course, also, tinting, tracing, blue printing and simple map drawing will be included.

8. Geology.

Professor:—F. D. Adams.
Demonstrator:—A. W. G. Wilson.

The courses are arranged as follows:—

Third Year.

General Geology.—The lectures will embrace a general survey of the whole field of Geology, and will be introduced by a short course on Mineralogy. Especial attention will be devoted to Dynamical Geology and to Historical Geology, including a description of the fauna and flora of the earth during the successive periods of its past history, as well as to the economic aspects of the subject.

The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern slides. There will be an excusion every Saturday until the snow falls, after which the excursion will be replaced by a demonstration in the Museum.

Text Book:—Scott, An Introduction to Geology.

Fourth Year.—

Petrography.—The modern methods of study employed in Petrography are first described, and the classification and description of rocks is then taken up.

In addition to the lectures, one afternoon a week during the second term will be devoted to special microscopical work in the Petrographical Laboratory.

Text Book:—Harker, Petrology for Students.

Ore Deposits, Economic Geology and Practical Geology.—The nature, mode of occurrence and classification of Ore Deposits will first be taken up. A series of typical occurrences will then be described and their origin discussed. The more important non-metallic materials, *e.g.,* fuels, clays, abasive materials, building stones, etc., will be similarly treated as well as questions of water supply, artesian wells, etc. The methods employed in carrying out geological and magnetic surveys and in constructing geological sections will then be taken up, with special studies in folding, faulting, etc.

The course will be illustrated by maps, models, lantern slides and specimens.

Text Books:—Geikie, Outlines of Field Geology; Kemp, Ore Deposits of the United States and Canada; Phillips and Louis, A Treatise on Ore Deposits.

Books of Reference:—The Monographs of the U. S. Geological Survey, and the Reports of the Geological Survey of Canada.

Canadian Geology.—A general description of the Geology and Mineral Resources of the Dominion.

Petrographical Laboratory.—See § XII, 11. This laboratory is open to Fourth Year mining students during the second term.

Physiography.—The course will consist of a study of the principal types of Land Forms and their influence upon human development. Attention will be given more particularly to the practical bearing of the subject on engineering work. During the latter part of the course, a brief description of the salient physical features of Canada will be presented.

The course will be illustrated by maps, models and lantern slides.

Field Work.—The students in mining will receive a course of instruction in geological mapping and field work—extending over one week—in connection with the summer school of mining.

NOTE.—Students of the Mining and Chemistry courses take all the Mineralogy of the Third Year. Mining Students take all courses of the fourth year. Chemistry Students take, in addition to the Geology of the third year, the Mineralogy in the fourth year.

The Petrographical Laboratory is open to fourth year Mining Students during the second term.

9. Mathematics and Mathematical Physics.

PROFESSOR:—G. H. CHANDLER.

ASSISTANT PROFESSOR:—MURRAY MACNEILL.

LECTURER:—W. M. EDWARDS.

The work in this department is conducted from the outset with special reference to the needs of students of applied science. Much time is given to practice in the use of mathematical tables, particular attention being paid to the tracing of curves, graphical illustrations and solutions, methods of computing, approximations, etc.

The courses of study are as follows:—

1. *Geometry.*—Exercises on Euclid, including loci, transversals, etc., elements of Solid Geometry and of Geometrical Conic Sections. First Year, first term. Text Book:—Wilson's Solid Geometry and Conic Sections (Macmillan).

2. *Algebra.*—Miscellaneous theorems and exercises, exponential and other series, determinants, properties and solution of higher equations, complex numbers and vector algebra, graphical algebra with an introduction to Analytic Geometry.

First Year, second term. Text Book:—Dickson's College Algebra (Wiley) with lecture notes.

3. *Trigonometry.*—Plane and Spherical. . First Year, second term. Text Book:—Murray's Plane and Spherical Trigonometry (Longmans), with Bottomley's and Chambers's Mathematical Tables.

4. *Analytic Geometry.*—The point, straight line, circle, parabola, ellipse and hyperbola. Second Year, first term. Text Book:—Lambert's Analytic Geometry (Macmillan).

5. *Calculus.*—Differentiation of functions of one or more variables, successive differentiation, tangents, etc., multiple points, asymptotes, curvature, maxima and minima, integration, with applications to areas, volumes, moments of inertia, etc. Second Year, second term. Text Book:—Chandler's Calculus (E. M. Renouf, Montreal).

6. *Analytic Geometry.*—Elements of Geometry of Three Dimensions. Third Year, first term.

7. *Calculus.*—Various applications, elementary differential equations. Third Year, first term.

8. *Dynamics.*—An elementary course in Kinematics, Kinetics, Statics and Hydrostatics. First Year, first term. Text Book:—Blaikie's Dynamics (J. Thin, Edinburgh).

9. *Dynamics.*—Kinematics, Kinetics of a Particle, Statics. Second Year, first term. Text Book:—Wright's Mechanics (Van Nostrand).

10. *Dynamics.*—Kinetics of a Rigid Body, centres of pressure, etc. Third Year, second term.

Classes may also be held for advanced (optional) work in the above or other subjects. Students taking graduate courses will receive guidance in any advanced mathematics required in connection with their work.

10. Mechanical Engineering.

PROFESSOR:—R. J. DURLEY.
ASSISTANT PROFESSOR:—H. M. JAQUAYS.
DEMONSTRATOR:—T. H. SCHWITZER.

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1. *Kinematics of Machines.*—Second Year (Monday, 11; Wednesday, 11).

Definitions; mechanisms and machines; kinematic pairing; velocity and acceleration in mechanisms; centrodes; restraint

in mechanisms; analyses of the quadric crank chain, the slider crank chain and the double-slider crank chain; higher pairing in mechanisms; cams; ratchet and click trains; chamber-crank and chamber-wheel trains; mechanisms involving non-rigid links; screw motion and spheric motion in mechanisms.

Text Book:—Durley's Kinematics of Machines (Wiley).

2. *Dynamics of Machines.*—Third Year.—(Monday, 10; Wednesday, 9). Elementary dynamics of the steam engine; diagrams of crank effort; fluctuation of energy and speed; flywheels; friction of journals and pivots; graphic treatment of friction in mechanisms; brakes; dynamics of belt and rope driving; transmission and absorption dynamometers.

Fourth Year.—(Tuesday, 9; Wednesday, 9; Thursday, 12.) Balancing of double and single acting engines; dynamics of the connecting rod; gyrostatic action in machines; theory of governors; graphic methods in dynamics; vibration in machines; knocking of steam engines.

3. *Machine Design.*—Third Year.—Thursday, 10. Principles of the Strength of Materials as applied to the design of the parts of machines; fastenings used in machine construction, bolts, screws, keys, cotters, rivets and rivetted joints; journals and bearings; shafts and couplings.

Fourth Year.—(Monday, 9; Wednesday, 12).—Design of wheel gearing; belts, ropes and pulleys; pipes and pipe joints; cylinders; eccentrics, piston and piston rods, connecting rods, cross-heads and other engine details; flywheels; design of valves and valve gears.

Text Book:—Unwin's Machine Design (Longmans, 2 Vols.).

Book of Reference:—Low and Bevis' Machine Drawing and Design (Longmans.)

4. *Mechanical Drawing and Designing.*—Second Year.—(Monday and Thursday, 2). Elementary principles of mechanical drawing and draftsmanship; preparation of working drawings of simple machine details; making dimensioned sketches of machines and their parts, dimensioning and conventional colouring of drawings; preparation of tracings.

Third Year (Monday and Thursday, 2).—Designing of simple machine parts; more difficult exercises in mechanical drawing; engine designing.

Fourth Year (Monday and Thursday, 2).—The complete design of a machine, such as a steam engine, a pump, or a machine tool, is worked out, and the requisite working drawings and tracings are prepared.

5. *Thermodynamics.*—The course in this subject extends over the third and fourth years, and includes the following:—

Third Year.—(Monday, 11; Tuesday, 10.)—Fundamental laws and equations of Thermodynamics; their application to gases and to vapours, saturated and superheated; efficiency of ideal heat engines; properties of steam, and elementary theory of the steam engine; elementary theory of gas and hot air engines.

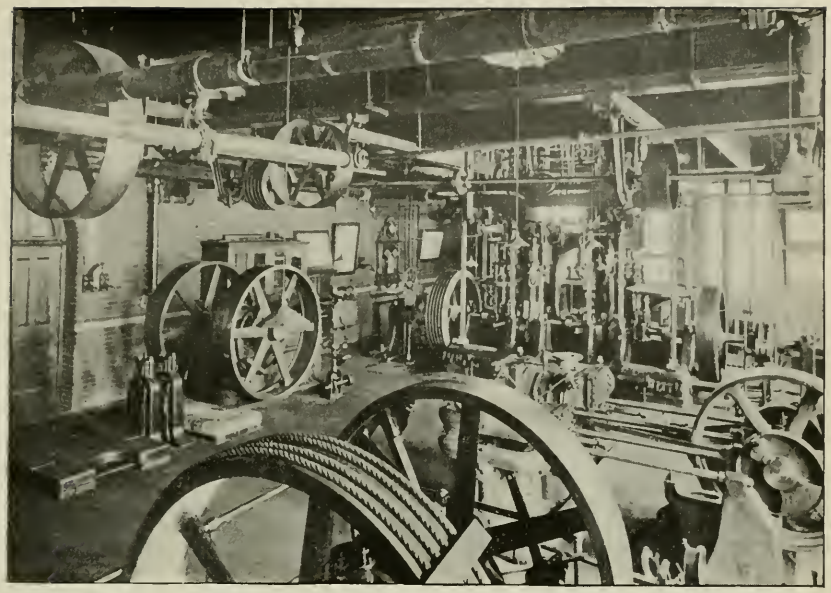
Fourth Year.—(Monday, 12; Thursday, 11).—Theory of reversed heat engines and refrigerating machines; entropy and entropy-temperature diagrams; a thermodynamic study of the steam engine, including the behaviour of steam in the cylinder; economy of steam engines; influence of size, speed, and rate of expansion; compound expansion; the steam jacket; the testing of steam engines; more advanced theory of gas, air, and oil engines.

The advanced course is carried out as far as possible in connection with the experimental work of the thermodynamic laboratory.

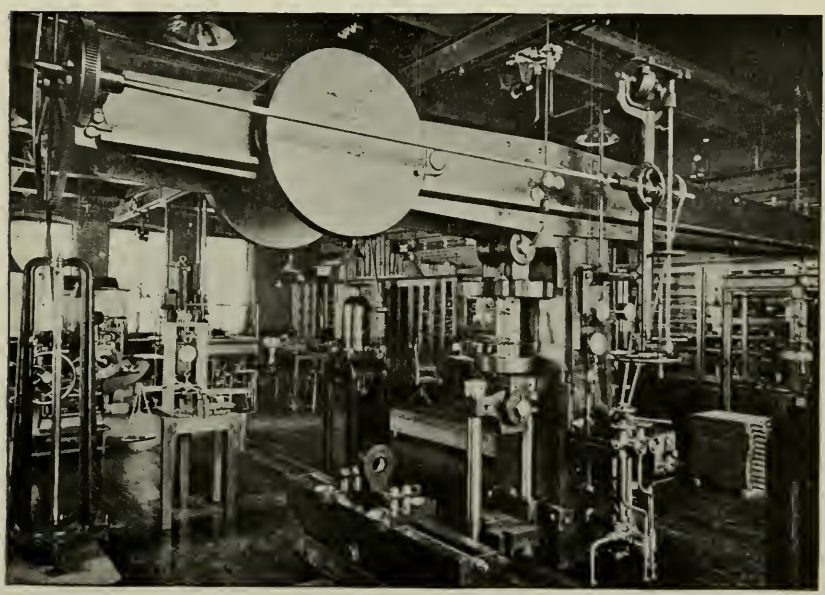
Text Books:—Ewing's Steam Engine (Cambridge Univ. Press); Peabody's Tables of Properties of Steam (Wiley).

6. *Mechanical Engineering.*—Fourth Year.—(Thursday, 10; Friday, 9.).

Steam boilers and steam production; fuel and combustion; corrosion and defects of boilers; boiler installations; the steam engine—estimation of power developed under various conditions; the indicator and its diagrams; steam distribution, and tions; the indicator and its diagrams; steam distribution, and performance of pumping and air-compressing machinery, as shown by the indicator; economy of steam machinery; gas and oil engines; gas producers; mechanical distribution of power, and losses of power, in power installations and workshops; air compressors; fans; pumping machinery; steam engine valves and valve gears; valve diagrams; speed regulation in steam engines; lubrication in steam engines; steam turbines and engines for special services; relation between weight and power in steam machinery; marine engines and ship propulsion; ele-



Thermodynamic Laboratory.



An Engineering Testing Laboratory.

ments of locomotive engineering; tractive force in locomotives; train resistance; brakes; refrigerating machinery.

Books of Reference:—Ewing's The Steam Engine (Camb. Univ. Press); Lineham's Mechanical Engineering (Chapman & Hall); Hutton's Mechanical Engineering of Power Plants (Wiley).

7. *Laboratory Instruction.* See pages 224 and 230.

8. *Workshop Practice.* See pages 234 and 235.

GRADUATE COURSES.

The graduate courses in Mechanical Engineering comprise experimental research work of the following kinds:—

Tests of the economy and performance of steam engines and boilers, air and gas engines, and air compressors; experiments on the behaviour of superheated steam, on cylinder condensation, on feed heating, and on the value of fuels; experiments on the properties and relative values of lubricants, on transmission and absorption dynamometers, on the efficiency of transmission machinery and of machine tools; tests of fans and blowers; experiments on the flow of air and of steam; researches on the tempering and welding of various materials, on the properties of alloys and on the action of cutting tools.

11. Metallurgy.

PROFESSOR:—ALFRED STANSFIELD.

DEMONSTRATOR:—

I. The undergraduate courses for Metallurgical and Mining students are as follows:—

Third Year.—(1) General Elementary Metallurgy, including introduction, fuels, furnaces and refractory materials, typical metallurgical operations and reactions. Two lectures a week during first term.

Text Book:—Huntingdon and Macmillan, "Metals, their Properties and Treatment."

(2) Fire Assaying, including introductory, furnaces, balances and other appliances, sampling and preparation of ores for assay, fluxes and reagents, assays of gold, silver, and lead ores, assays of bullion and base bullion.

Lectures, demonstrations, and laboratory work,—50 hours, during Second term.

Text Book:—Furman, "Manual of Practical Assaying."

Fourth Year (3) The Metallurgy of iron and steel, copper, lead, gold and silver. The lectures cover the more important dry and wet methods of extracting these metals from their ores, and refining them. The chemical, physical and mechanical properties of the metals are also considered. The milling and amalgamation, cyaniding and chlorination of gold and silver ores are excluded from this course, as they are treated in the lectures on ore-dressing (see Mining 6).

Two lectures a week in first term and three lectures a week in second term. Laboratory (see Metallurgy 8).

Books of Reference:—T. Turner, "Metallurgy of Iron"; H. M. Howe, "Metallurgy of Steel"; F. W. Harbord, "Metallurgy of Steel"; H. H. Campbell, "Manufacture and Properties of Iron and Steel"; E. D. Peters, "Modern Copper Smelting"; H. O. Hoffman, "Metallurgy of Lead"; H. F. Collins, "Metallurgy of Silver and Lead"; T. K. Rose, "Metallurgy of Gold"; M. Eissler, "Metallurgy of Gold"; C. Schnabel, "Handbook of Metallurgy," Vol. I.

(4) Alloys,—their constitution, manufacture and properties; fuels and refractory materials,—their examination and use, including calorimetry and pyrometry. One lecture a week during second term. (Optional.)

Books of Reference:—W. C. Roberts-Austen, "Introduction to the Study of Metallurgy"; R. H. Thurston, "Materials of Engineering"; H. M. Howe, "Iron, Steel and other Alloys."

(5) Electric Smelting and Refining of Metals.—One lecture a week during second term. (This course is alternative with Hydraulics).

(6) Additional lectures are given in the third and fourth years to Metallurgical students. In these lectures the metallurgy and electro-metallurgy of the remaining metals is considered, and attention is given to laboratory and research work in metallurgy and to furnace construction and cost of metallurgical operations.

(7) Metallurgical Machinery (see Mining 5).

(8) Laboratory:—One whole day and one half day per week are given to work in the Ore Dressing and Metallurgical Laboratories. In the first term this time is evenly divided between Ore Dressing and Metallurgy, and certain typical oper-

ations in each are carrid out either as demonstrations, or by groups or individual students.

The whole time in the laboratory in the second term is given to thesis work, and in this individual work each student is permitted to elect between ore dressing and metallurgy, and, when practicable, to select his own special subject.

The following metallurgical exercises will be carried out, as far as time will permit, during the first term, either as demonstrations, individual work, or work in groups. During the second term, any of these or some similar exercises may be selected by the students as their thesis work:—

(*a*) Roasting a sulphide or arsenical ore on a small scale and also in the large roasting furnaces.

(*b*) Formation and properties of copper or lead mattes and slags.

(*c*) Smelting a copper or lead ore in the water jacketed blast furnace.

(*d*) Melting and casting certain metals and alloys.

(*e*) The use of the electric furnace.

(*f*) Leaching a copper or silver ore.

(*g*) Elementary exercises in some of the following:—

Pyrometry, Calorimetry, Flue Gas Analysis, Tests of Refractory Materials, Microscopic Examination of Metals, Heat Treatment of Iron or steel.

The details of the ore dresssing work are given in Mining (8).

II. Graduate Courses.—Special advanced courses of laboratory work are offered in Metallurgy and Assaying.

III. Metallurgical and Assaying Laboratories.—*For* description, see § XII, 9.

IV. Metallurgical Excursions and Summer Schools.—Students attending the courses in Mining and Metallurgy are required to attend the Summer School in Mining (see Mining VI) at the end of their third year.

At this school, when practicable, a portion of the time is devoted to a thorough examination of some metallurgical establishments.

In additions to this, excursions may be made by the class from time to time to such metallurgical works as are within reach.

12. Mineralogy.

PROFESSOR:—B. J. HARRINGTON.
ASSISTANT:—RICHARD GRAHAM.

The courses are arranged as follows:—

Third Year:—

Mineralogy.—Lectures and demonstrations illustrated by models, specimens and lantern slides. Among the subjects discussed are: crystallography; physical properties of minerals dependent upon light, electricity, state of aggregation, etc.; chemical composition, calculation of mineral formulæ, quantivalent ratios, etc.; principles of classification, description of species.

Determinative Mineralogy.—Laboratory practice in blow-pipe analysis and its application to the determination of mineral species.

Fourth Year:—

Mineralogy (in continuation of the course in third year)—Description of species, particular attention being paid to those which are important as rock constituents and to the economic minerals of Canada.

13. Mining Engineering.

PROFESSOR:—JOHN BONSALL PORTER.
LECTURER:—JOHN F. ROBERTSON.
FELLOW IN MINING:—H. L. FORBES.

I. The undergraduate courses in detail are as follows:—

Third Year.—(1) Mining. Excavation, explosives and blasting, rock drills, coal cutters, etc.; gold washing, river mining, hydraulic mining and gold dredging. (One lecture per week.) This course is continued in the fourth year. (See Mining 4.)

(2). Ore dressing. The theory and practice of ore dressing and coal washing; the forms in which ores occur and the effect of mixture, impurity, etc.; the theoretical considerations affecting mineral separations; the general mechanical operations involved; Dressing Machinery—breakers, rolls, screens, jigs, vanners tables, washers, buddles, magnetic separators, etc. (Two hours per week in the second term. This course is continued in the fourth year. See Mining 6).

(3). Laboratory. Simple examinations and tests of ores, sands, and gravels, by means of pan, vanning shovel, hand jig, magnet, classifier, etc. (Eight afternoons in the second term. Further laboratory work in the fourth year, see Mining 8.)

Fourth Year.—(4). Mining Engineering. The Principles and Practice of mining; prospecting, sinking, drifting, developing, methods of mining, timbering, hauling, hoisting, draining, lighting, ventilating, etc.; mine accidents and their prevention; general arrangement of plant, administration, stores and dwellings; examination and valuation of mines and mineral properties and mine reports. (Three lectures a week.)

(5) Mining and Metallurgical Machinery; the generation, transmission and utilization of power in mining, ore dressing, and metallurgy; steam, hydraulic and electric power plants, air compressors, blowing engines, dynamos, transmission lines, motors, conveyors, cranes, hoists, pumps, ventilating machinery, etc. (Three lectures a week and thirty-five afternoons in the designing room).

(6) Ore Dressing and Milling. Continuation of the ore dressing course of the third year; concentration plants, coal breakers and washers, dry concentration, amalgamation, gold and silver milling, cyaniding, chlorinating, etc. (Three lectures a week in the first term.)

(7) Mining Colloquium. One hour a week from the time assigned to lectures throughout the session is given to informal discussion of the work being done in the department and of other matters relating to mining, ore dressing and metallurgy. Students are required to take active part in these discussions.

Text Books:—

No set text books are used, but students are recommended to freely consult the following works of reference, in addition to the special references given from time to time: Coal Mining; Ihlsing's Manual of Mining; R. H. Richard's Ore Dressing; T. A. Richard's Stamp Milling of Gold Ores; H. Louis' Handbook of Gold Milling; T. K. Rose's Metallurgy of Gold; M. Eissler's Metallurgy of Gold; H. F. Collins' Metallurgy of Silver; James' Cyanide Practice; The Coal and Metal Miners' Pocket-book.

(8i Laboratory. One whole day and one half-day per week are given to work in the ore dressing and metallurgical laboratories. In the first term this time is evenly divided between Ore Dressing and Metallurgy, and certain typical operations in each are carried out either as demonstrations or by individuals or groups of students. In the second term each student is permitted to elect between Mining, Ore Dressing and Metallurgy, and to choose an individual subject or thesis, and the whole of the laboratory time in the second term is given to this thesis work.

The set exercises in Ore Dressing comprise a series of experiments in crushing, classifying, jigging, slime treatment, magnetic separation, and amalgamation, and include a complete trial run of the five-stamp battery on a free milling gold ore.

The subjects available for thesis work are very numerous, and range from purely theoretical investigations in classification, concentration, etc., to the experimental determination of the best methods of treatment of ores and coals. Over one hundred different lots of ore are available, and the quantities are sufficient for work on a comparatively large scale.

The metallurgical work is detailed in Metallurgy (8).

II. Graduate Courses:—Special courses in advanced work are also offered in both Mining and Ore Dressing, and these courses, owing to the very complete equipment of the laboratories, as detailed elsewhere, can be made exceedingly valuable, both theoretically and practically.

III.—Laboratories.

During the first three years of the course the students do systematic work in the several workshops and laboratories of the other departments. During the last half of the third and the whole of the fourth year they spend a large proportion of their time in the special laboratories for Ore Dressing and Metallurgy. (See § XII). In these, the general method is first to conduct before the whole class a limited number of important typical operations in ore dressing and metallurgy,

and then to assign to each student certain methods which he must study out in detail, and upon which he must experiment and make written report. In this work he is guided by the professors and demonstrators, and assisted by the other students, whom he must in turn assist when practicable. In this way every student acquires detailed knowledge of certain typical operations and a fair general experience in all the important methods in use.

IV. Illustrations, Museums, Societies, Etc.:—In addition to a large series of lantern slides, the department owns a collection of about thirty-five hundred photographs and other illustrations. This collection is constantly being enlarged.

The Museums of the new building contain suites of ores, fuels and metallurgical materials, models of mines and furnaces, and specimens of finished products.

The McGill University Mining Society meets fortnightly to read and discuss papers by graduate and student members, and from time to time to hear lectures given by gentlemen eminent in the profession. Special arrangements are made whereby students may attend meetings of the mining section of the Canadian Society of Mining Engineers, and members of the Mining Society are privileged, for a nominal fee, to become student members of the Can. Soc. C.E., and to receive all the publications of the Society.

The Society has recently been made a students' section of the Canadian Mining Institute, and its undergraduate members are therefore student members of the Institute, and receive all its publications. Papers read before the Mining Society may be entered in competition for any students' prizes offered either by the Can. Soc. Civil Engineers or by the Can. Mining Institute. See p. 166.

VI. Field School in Mining:—The summer vacation class instituted in 1897 is now a fixed part of the course. All students of Mining in regular course are required to attend this class at the end of the third year.

The school lasts about six weeks. Of this period about one-sixth is given to field work in geology, one-half or more to mining work proper, and the remainder, when practicable, to an examination of ore dressing and milling plants and met-

allurgical establishments. The professor of mining and his assistant go with the party and hold daily demonstrations or classes. The students take notes and sketches on the ground, and afterwards are required to work up these notes and to submit a formal report on some part or the whole.

The work in Metallurgy and Geology is carried on by officers of these departments, who attend the school for this purpose, and in certain cases it may be found practicable to permit students especially interested in these subjects to substitute additional work in them for a portion of the Mining.

In 1898 and in 1902 the school was held in the coal region of Cape Breton and the gold region of Nova Scotia. In 1899 and again in 1905 the anthracite region of Pennsylvania and metallurgical works at Bethlehem and Philadelphia, Pa., were visited. In 1901 and in 1904 the school was held in British Columbia and the most important camps were studied. In 1903 it was held in the iron and copper regions of Michigan.

The instruction given during this field course is free to all mining students, the only expense to them being the cost of board, lodging, and railway fares, and every effort is made to keep these expenses as low as is practicable.

As some students may have difficulty in finding even this sum in addition to the cost of the regular course, a fund has been provided by Sir William Macdonald, and deserving students who require aid can have money advanced them by applying to the Professor of mining.

14. Physics (Experimental).

PROFESSORS:—JOHN COX.
E. RUTHERFORD.
ASSISTANT PROFESSOR:—H. T. BARNES.
DEMONSTRATORS:—R. K. MCCLUNG (*Senior*).
H. L. BRONSON.
E. W. SHELDON.
G. H. COLE.

The instruction includes a fully illustrated course of Experimental Lectures on the general Principles of Physics (embracing, in the first year—*The Laws of Energy—Heat, Light, and Sound*; in the second year—*Electricity and Magnetism*), accompanied by courses of practical work in the laboratory, in

which the students will perform for themselves experiments, chiefly quantitative, illustrating the subjects treated in the lectures. Opportunity will be given to acquire experience with all the principal instruments used in exact physical and practical measurements.

LABORATORY COURSE:—

Three hours per week spent in practical measurements in the Macdonald Physical Laboratory in conjunction with the lecture courses.

Sound.—Velocity of Sound; determination of rates of vibration of tuning forks; resonance; laws of vibration of strings.

Light.—Photometry; laws of reflection and refraction; focal lengths and magnifying powers of mirrors, lenses, telescopes and microscopes; the sextant; spectroscope, spectrometer, diffraction, grating, optical bench, polariscopes.

Heat.—Construction and calibration of thermometers; melting and boiling points; air thermometer; expansion of solids, liquids and gases; calorimetry; pyrometry.

Text Books:—Deschanel, Part IV.; or Ganot; Jones, Sound, Light and Heat; Wright, Heat; Tory and Pitcher, Laboratory Manual; Chandler, Laboratory Manual.

Magnetism and Electricity.—Measurements of pole strength and moment of a magnet; the magnetic field; methods of deflection, and oscillation; comparison of moments and determination of the elements of the earth's magnetism; frictional electricity.

Current Electricity.—A complete course of measurements of current strength, resistance, and electromotive force; calibration of galvanometers; the electrometer; comparison of condensers; electromagnetic induction.

Text Books:—S. P. Thompson, Electricity and Magnetism; Tory and Pitcher, Laboratory Manual.

Second Year.—Electrical Engineering students are given an extra laboratory period of 3 hours per week, which allows of a more extended and complete course of experimental work.

Third Year.—Students of Electrical Engineering will continue their work in the Physical Laboratory in the third year.

The following is a brief outline of the course:—

Magnetic elements and measurements; use of variometers; testing magnetic qualities of iron; theory and practice of abso-

lute electrical measurements; comparison and use of electrical standards of resistance, E. M. F., self-induction, and capacity; principles of construction of electrical instruments; testing and calibration of ammeters, voltmeters and wattmeters; insulation and capacity tests; electrometers and ballistic methods; construction and treatment of storage cells; testing for capacity and rate of discharge; electric light photometry.

The following are some of the sections in which special provision has been made for advanced physical work:—

Heat.—Thermometry:—comparison and verification of delicate thermometers; air thermometry; measurement of high temperatures; electrical resistance thermometers and pyrometers; thermo-electric pyrometers.

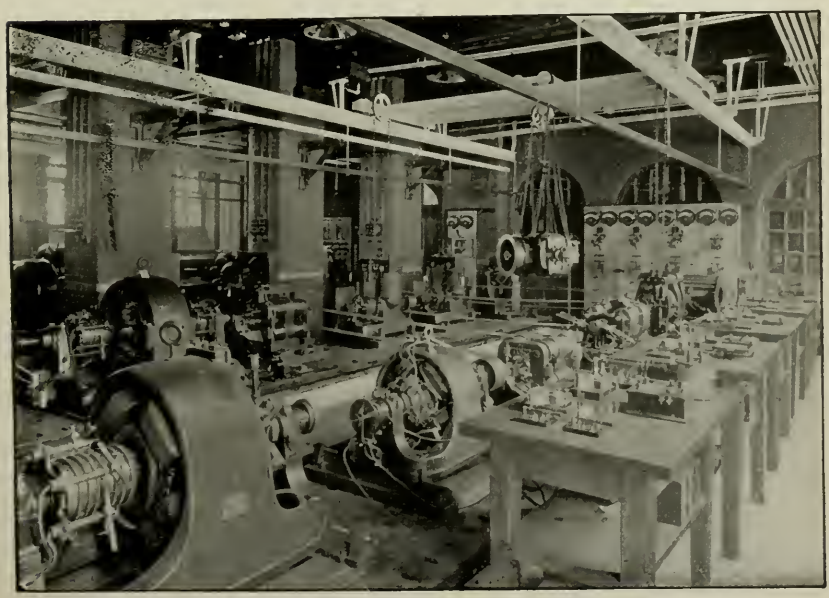
Calorimetry:—Mechanical equivalent of heat; variation of specific heat and temperature; latent heat of fusion and vaporisation; heat of solution and combustion; electrical methods; radiation and conduction of heat with special methods and apparatus; dynamical theory of gases; viscosity; surface tension; variation of properties with temperature.

Light.—Photometric standards; spectro-photometry; theory of colour vision; spectroscopy and spectrum photography; compound prism spectrometers; six inch and 2½ inch Rowland gratings; study of spectra of gases; fluorescence and anomalous dispersion; polarimetry; Landolt' and other polarimeters; form of wave surface.

Sound.—Velocity in gases and various media; absolute determinations of period; harmonic analysis of sounds; effects of resonance and interference.

Electricity and Magnetism.—Magnetic properties; influence of stress and torsion; influence of temperature; effects of hysteresis; magneto-optics; other effects of magnetisation; diamagnetism; electrical standards and absolute measurements; calibration of electrical instruments; insulation and capacity testing; electrometer and ballistic methods; temperature, variation of resistance, and E.M.F.; thermo-electric effects; electrolysis; chemistry of primary and secondary batteries; resistance of electrolytes; polarisation; electric discharge in gases and high vacua; dielectric strength; behaviour of insulators under electric stress, specific inductive capacity; alternating currents of high frequency and voltage; electrical waves and oscillations; conductivity of gases, and radio-activity.

An Electrical Engineering Research Laboratory.



Direct Current Dynamo Laboratory.

Professor Cox will give a special course of lectures to advanced and graduate students, on "the relations between optics, electricity and magnetism"; Prof. Rutherford will give a course on "Radio-Activity"; and Dr. Barnes will give a course on "Advanced Heat Measurements."

N.B.—Students taking a graduate course will receive guidance in any advanced Mathematics required in connection with their work.

15. Surveying and Geodesy.

PROFESSOR:—C. H. McLEOD.
ASSISTANT PROFESSOR:—J. G. G. KERRY.
DEMONSTRATORS:—JOHN B. HARVEY. E. B. JOST.

This course is designed to give the student a theoretical and practical training in the methods of land and geodetic surveying, in the field work of engineering operations, and in practical astronomy. The course is divided as follows:—

Second Year.—Chain and angular surveying; the construction, adjustment, use and limitations of the various instruments; underground surveying; topography, levelling, contour surveying; simple curves and setting out work; descriptions for deeds; general land systems of the Dominion and Provinces. Mr. Kerry.

Third Year.—Construction surveying, including the location of roads, transition curves, setting out work and calculation of quantities; geodetic, trigonometric and barometric levelling; topographic and photographic surveying; hydrographic surveying; introduction to practical astronomy; graphical determination of spherical triangles, spherical projections, construction of maps; mathematical perspective and the perspective of shades and shadows. Professor McLeod.

In the field the students of the second and third years are required to carry out the following:—(1) A chain survey. (2) A chain and compass survey. (3) A pacing survey. (4) A compass and micrometer survey. (5) A contour survey. (6) A plane table survey. (7) A survey and location of a line of road with determination of topography and contours and subsequent staking out for construction. (8) A hydrographic survey of a river channel, including measurement of discharge. (9) A

survey at night illustrating underground methods. (10) Astronomical observations with sextant and engineer's transit.

All students are required to keep complete field notes, and to prepare maps, sections and estimates.

The large drawing rooms are furnished with fixed mountings for the various instruments, in order to permit of their use and investigation during the winter months.

Fourth Year.—Practical Astronomy:—the determination of time, latitude, longitude and azimuth. Geodesy:—figure of the earth; measurements of base lines and triangulation system; adjustments and reductions of observations.

The field work of the fourth year consists in the measurement of a base-line, in triangulations and precision levelling.

The practical work in astronomy (for equipment of observatory see § XII, 6) comprises: (1). Comparisons of clocks and chronometers. (2). Determination of meridian by solar attachment. (3). Meridian, latitude and time by solar and stellar observations with the engineer's transit. (4). Latitude and time by sextant. (5). Time by astronomical transit. (6). Latitude by zenith telescope. (7). Latitude by transit in prime vertical.

Field work is required of all students of the second year (excepting those taking the Practical Chemistry Course), of students of the third year in the courses of Civil and Mining Engineering, and of the fourth year in the Civil Engineering course. The work will begin in 1905 on 21st August, and will continue for a month.

Exercises in the geodetic laboratory (for equipment see § XII, Art. 6, p. 222), carried out in the fourth year, include the following: (1) Measurement of magnifying power. (2) Determination of vernier errors. (3) Errors of graduation. (4) Measurement of eccentricity of circles. (5) Determination of errors of run of theodolite microscopes. (6) Investigation of the errors of a standard bar. (7) Graduating scales with the dividing engine, and comparison thereof on the comparator. (8) Investigation of the errors of circles on the circular comparator. (9) Determination of the constants of steel tapes. (10) Investigation of the graduation errors of steel tapes on the fifty-foot comparator. (11) Investigation of the errors of level tubes, and determination of their scale

values. (13) Measurement of the force of gravity with a reversible pendulum.

The equipment of the surveying department comprises the following, in addition to the apparatus of the observatory and geodetic laboratory:—Forty-eight transit theodolites by various makers, with solar and mining attachments; a photo-theodolite; an 8-in. alt-azimuth; twenty-four dumpy and nine wye levels; hand levels and clinometers; three precision levels; thirteen surveyor's compasses; one miner's dial; three prismatic compasses; pocket compasses; two solar compasses; marine sextants; artificial horizons; box sextants; two reflecting circles; seven plane tables; six current meters; Rochon micrometers; double image micrometers; field-glasses; two heliotropes; several barometers; 300 ft. and 500 ft. steel tapes suitable for base measurements; steel chains and steel bands; linen and metallic tapes; sounding lines; pickets; levelling rods; micrometer targets; slope rods; pedometers; station pointer, pantographs, planimeters, slide rules and minor appliances.

Examinations for Land Surveyors:—Any graduate in the Faculty of Applied Science in the Department of Civil Engineering and Land Surveying, may have his term of apprenticeship shortened to one year for the profession of Land Surveyor.

Text Books:—Gillespie's Surveying, Johnson's Theory and Practice of Surveying, Shortland's Nautical Surveying, Greene's Practical and Spherical Astronomy, Nautical Almanac, Baker's Engineers' Surveying Instruments.

Transportation.

(On Common Roads, Railways and Canals.)

The lectures will embrace:—

(*a*) A brief historical review of the inception and carrying out of the great Canadian systems of transportation, and a resumé of the laws governing them.

(*b*) Common roads and streets.—Provision made for them in settling up land; the traffic for which they are suited, and the cost of hauling over different surfaces; the materials

used in construction and the merits and cost of the various systems.

(*c*) Canals and rivers.—The Canadian canal system; the methods and cost of construction and maintenance; the traffic it is designed to carry; and the cost of transportation.

(*d*) Steam railroads.—The traffic they serve and the cost of handling it; the details of location and the influence of physical features and trade possibilities upon it; the cost and design of construction; the duties of the engineer upon such work; the appliances at present in use for safe and speedy handling of traffic.

(*e*) Electric roads.—The traffic which they now carry; their location and construction; the reasons for their rapid extension, and their probable future.

The questions of the development and applying of motive power and the various appliances, mechanical and electrical, now in use for these special purposes, are taken up in the mechanical and electrical departments. Mr. Kerry.

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§ XII. Laboratories.

In the Laboratories the student will be instructed in the art of conducting experiments, a sound knowledge of which is daily becoming of increasing importance in professional work.

1. **Assaying Laboratory.** See Mining and Metallurgical Laboratories.

2. **Astronomical Observatory.** See Geodetic Laboratory.

3. **Cement Laboratory.**—The importance of the tests of the strength of mortars and cements is very great. The equipment of the laboratory for the purpose is on a complete plan, including:—

(*a*) Three one-ton tensile testing machines, representing the best English and American practice.

(*b*) One 50-ton hydraulic compressive testing machine.

(*c*) Volumenometers for determining specific gravity and for determining the carbonic acid in the raw material.

(*d*) Faija steaming apparatus for blowing tests.

(*e*) Mechanical hand and power mixers.

(*f*) Apparatus for determining standard consistency.

(*g*) Vicats' and Gilmore's needles for determining set.

(*h*) Weighing hopper, spring and other balances.

(*i*) Gun metal moulds for tension, compression and transverse test pieces, and special moulds for placing mortar into the moulds under a uniform pressure, which, together with the mechanical mixers, enable the personal errors to be eliminated.

(*j*) Sieves of 20, 30, 40, 50, 60, 70, 80, 100, 120 and 180 meshes per lineal inch for determining the fineness.

(*k*) A Boehme hammer, with all accessories.

The laboratory is also fitted with copper-lined cisterns, in which the briquettes may be submerged for any required time, and with capacious slated operating tables, bins and tin boxes for keeping the cement dry for any period.

In the Cement Testing Laboratory, researches have been made on the strength of mortars set under pressure, the effect of frost on natural and Portland cements, the effect of sugar on lime and cement mortars, the strength of lime and cement mortars and of the bricks in brick piers, the effect of fine grinding on the adhesive strength of cements, of using hot water in mixing mortars. Continued tests on the strength of concrete blocks in series are made by Fourth Year Students.

In addition to these researches, a large amount of work is done each year by the Third Year students, in investigating the specific gravity, fineness, setting properties, constancy of volume, and the tensile, comprehensive and transverse strengths of cement, both neat and with the sand.

4. **Chemical Laboratories.** The main lecture-theatre, extending through two storeys, is entered from the ground floor, and seats nearly 250 students. The lecture-table is supplied with coal-gas, oxygen and hydrogen, electricity, water vacuum, down-draught, etc., and can be well seen from all parts of the room.

Besides the main lecture-theatre there are three smaller class rooms, accommodating from 40 to 60 students each.

The three principal laboratories have each a floor-space of about 2,400 square feet, and together have accommodation for nearly two hundred students working at a time. They are lighted on three sides, and have ample hood space. One is intended for beginners, and the others for more advanced work, particularly in qualitative and quantitative analysis. In connection with each of the main laboratories is a balance-room, equipped with balances by several of the best makers.

Physical Chemistry is provided for in a special laboratory, nearly 30 by 40 feet, lighted from the north, and supplied with electricity, steam, vacuum pumps, etc. The equipment of this department consists of the apparatus necessary for the determination of the specific gravities of solutions, of the depression of freezing point, the rise of boiling point, and of the densities of gases and vapours. There are constant-temperature baths for accurate measurement of solubilities, Kohlrausch's apparatus for determining the electrical conductivity of solutions, and the apparatus necessary for measuring the electromotive forces generated between metals and their solutions, and in voltaic cells generally. There are also calorimeters for measuring the heat effects produced in chemical reactions. There is on the same floor an optical room furnished with refractometers for measuring the refractive indices of solutions, goniometers, polariscopes and spectroscopes. Other forms of apparatus will be added as required for research work.

Immediately adjoining the laboratory of physical chemistry is the photographic department, supplied with two dark rooms, arranged on the maze system, and provided with the necessary appli-

ances for all ordinary photographic work, including an enlarging camera, and apparatus for micro-photography.

The laboratory for gas analysis has a northern exposure, and is fitted with a large tank to contain water at the temperature of the room, for use in obtaining a constant temperature in the measurement of gases. The tables are arranged for work with mercury, and the laboratory is supplied with the apparatus of Hempel, Dittmar, Orsat, Elliot, and others. It contains also Fleuss, Boltwood, and Topler pumps for producing high vacua.

The laboratory for electrolytic analysis is supplied with accumulators, thermopile, platinum electrodes, rheostats, ammeters, voltmeters, etc.

Another room has lately been equipped with electric furnaces and other appliances for electro-chemical work.

The organic department comprises a laboratory for preparations and research, a combustion room for analysis, a dark room for polariscope and saccharimeter work, and a lecture room. The laboratory is fitted with all the necessary apparatus for organic research—special hoods for work with poisonous gases, regulating ovens for digesting and drying at various temperatures, filter presses for the extraction of raw materials, and various forms of apparatus for distillation in vacuo. The dark room is equipped with polariscopes and saccharimeters for sugar work. There is a large supply of the necessary organic chemicals, which are supplied free of charge to students engaged in routine or research work in this department.

The laboratory for determinative mineralogy has places for 28 students, and is supplied with abundant materials for practical work. It adjoins the lecture-room in which the lectures in advanced mineralogy are delivered. The mineralogical department is also provided with suitable machinery, run by electricity, for use in the cutting and polishing of minerals and rocks.

The Library contains a valuable collection of the most recent English, French, and German books, and sets of various journals and transactions, including the Berichte der Deutschen Chemischen Gesellschaft, Journal für Praktische Chemie, Chemisches Centralblatt, Fresenius' Zeitschrift für Analytische Chemie, Annales de Chemie et de Physique, Journal of the Chemical Society, Journal of the Society of Chemical Industry, Chemical News, Mineralogical Magazine, Mineralogische und Petrographisiche Mittheilungen, etc. The library is open to students under such restrictions as are necessary to prevent damage or loss of books.

The rooms for allied purposes have, as far as possible, been grouped together on the same floor, and there is a hydraulic lift running from the basement to the attic. The offices and principal laboratories and supply rooms are also connected by a system of telephones. The building is practically fire-proof.

5. **Electrical Laboratories.** These laboratories contain all principal types of commutating, synchronous, and induction machinery, together with ample facilities for investigating their action. The several laboratories are the Standardizing Laboratory, the Fourth Year Dynamo Laboratory, the Third Year Dynamo Laboratory, the High Tension Testing Room, the Photometer Room, and the laboratory for special investigation.

(*a*) The Standardizing Laboratory is equipped with four Kelvin Balances for alternating and direct current measurements, best range .025 to 600 amperes; a Kelvin standard electrostatic multicellular voltmeter, Board of Trade pattern; a Weston laboratory standard Ammeter, range with shunts 0 to 1500 amperes; a Weston Laboratory standard Voltmeter range with multipliers, 0 to 3000 volts; a Weston Laboratory standard wattmeter range 0-7500 watts; special Weston alternating current voltmeters and wattmeters; a special Elliott Potentiometer with standard cells for electromotive force and current measurement; means for measuring high and low resistances, capacity, and di-electric strength of insulating materials, etc., etc. Direct current for the Laboratory is furnished either from the service plant, from a special motor-dynamo, the voltage of which can be continuously varied from 0 to 10 volts, current capacity 300 amperes: from a 75 K.W. hour storage battery arranged in sections, or from any d.c. machine in the Fourth Year Dynamo Laboratory. Alternating current of several wave shapes and frequencies up to 150 periods per second, and voltages up to 200,000 is available. A special transformer having a current capacity of 800 amperes is used for alternating current ammeter calibration. For alternating current voltmeter calibration, a special regulator is provided, by which voltages from 0 to 200 can be obtained in as small steps as desired.

(*b*) The Fourth Year Dynamo Laboratory. The former method of driving all dynamos from an overhead line shaft and clutch pulleys has been abandoned and individual motors supplied for each machine. Each motor is provided with suitable series turns and variable shunt, the whole being connected to act with or against the shunt turns, as a compounding or differential effect is desired. The speed of the motors can be varied about 50 per cent. by field rheostat. This gives perfect control of dynamo speed. Current for operating is obtained from six independent sources of supply; one 75 K.W. direct connected unit in the service plant; 3 sets of 25 K.W. hour chloride accumulators and two city supply circuits. All generators and motors are mounted on strong testing benches fifteen inches high, with slotted floor, so that any machine can be placed anywhere on the benches and secured in place. Two small travelling cranes over the benches allow machines to be easily shifted. All wiring is done in conduits under the floor, and large sectional switchboards are provided for current distribution about the laboratories. Special testing tables, permanently wired up and fitted with circuit breakers, switches, etc., facilitate the work. Sixteen alternating current machines, including single, two and three phase generators, synchronous motors, compensators, and synchronous converters, together with a large amount of stationary and rotary induction apparatus, are provided for alternating current work. Several of the alternating current dynamos are of the inductor type and several different shaped inductors are provided with each machine to give different wave forms. A specially arranged induction motor serves as a frequency changer. The laboratory is also provided with between eighty and ninety voltmeters, ammeters, and wattmeters of standard make, and of different ranges; condensers, rheostats, standard resistance, etc.

(*c*) The Third Year Dynamo Laboratory. This laboratory is equipped with twenty commutating machines, generators; shunt, series and compound wound motors, boosters, motor generators, dynamotors,

closed and open coil arc machines, varying in capacity from a fraction of a kilowatt to 40 kilowatts, of many different types and makes. This laboratory is also provided with between fifty and sixty voltmeters, ammeters and wattmeters of standard make, and of different ranges; rheostats, controllers, etc., are also provided.

(*d*) High Tension Testing Room. This room is equipped with four 10 K.W., 200-50,000 volt. transformers with switch board and suitable controlling devices. The voltage can be varied in small steps by means of a Stillwell regulator inserted in the primary and by varying the field of the dynamo supplying current. A Kelvin direct reading electrostatic voltmeter, range 100-100,000 volts., gives a means of measuring high voltages directly. A 200-20,000 volt testing transformer is used for insulation testing.

(e) The Photometer Room. This room is equipped with standard photometric apparatus for candle power measurements on arc and incandescent lamps.

(*f*) The laboratory for special investigation adjoins the Standardizing Laboratory. Meter and transformer testing are also done in this room.

6. **Geodetic Laboratory.**—The equipment of this laboratory consists of:—

(1) Linear instruments.
- (*a*) A Rogers comparator and standard bar for investigating standards of length.
- (*b*) A fifty-foot standard and comparator for standardizing steel bands, chains, tapes, rods, etc.
- (*c*) A Whitworth end-measuring machine and set of standards.
- (*d*) A Munro-Rogers linear dividing engine.

(2) Circular instruments.
- (*a*) A Rogers' circular comparator and dividing engine.
- (*b*) Two level triers.

(3) Time:—
- (*a*) An astronomical clock and clock circuit in connection with the observatory clocks.
- (*b*) Chronometers running on mean and sidereal time.
- (*c*) Chronograph.

(4) Gravity.—A portable Bessel's reversible pendulum apparatus with special pendulum clock and telescopic apparatus for observing coincidences of beats.

(5) A water gauge apparatus for testing aneroid barometers.

(6) Magnetic instruments:—
- (*a*) A Kew dip circle.
- (*b*) A Kew filar magnetometer.

The laboratory is constructed with double walls and enclosed air spaces, and has a special heating apparatus, so that the temperature within may be brought to, and held at, any desired degree.

The ordinary course of instruction in this laboratory is described in § A1., Art. 15.

Astronomical Observatory. — The observatory equipment for the purpose of instruction in practical astronomy consists of:—

1. A Bamberg prismatic transit with zenith attachment.

4. Two astronomical transits for meridian observations. Collimating telescopes.
3. A Troughton & Simms' zenith telescope.
4. An astronomical transit in the prime vertical.
5. Sidereal and mean time clocks and chronometers.
6. Chronograph and electrical circuits by which observations and clock comparisons within or without the observatory may be made.

7. **Hydraulic Laboratory.** — Here the student will study practically the flow of water through orifices of various forms and sizes, through submerged openings, over weirs, through pipes, mouthpieces, etc.

The equipment of this laboratory includes:—

(*a*) A large Experimental Tank, 30 ft. in height and 25 sq. ft. in sectional area. With this tank experiments are conducted on the flow of water through orifices either free or submerged. By a simple arrangement the orifices can be rapidly interchanged without lowering the head, and with the loss of only about one pint of water. The indicating and measuring arrangements connected with the tank are exceedingly delicate and accurate, all times being automatically recorded by an electric chronograph, and valuable results have already been obtained. By means of a special connection with the city water-supply, the available head of water may be increased up to 280 ft.

(*b*) An Impact Machine, which renders it possible to measure the force with which water flowing through an orifice, nozzle, or pipe, strikes any given surface, and also the impulsive effect of the water entering the buckets of hydraulic motors.

(*c*) A Rife's Hydraulic Ram.

(*d*) A Jet Measurer specially designed for investigating the dimensions of the jet produced in the phenomena known as "the inversion of the vein." With this apparatus it is possible to determine, within .001 inch, the dimensions of a jet in any plane and at any point of the path.

(*e*) Numerous orifices, nozzles, and mouth-pieces.

(*f*) A specially designed stand-pipe, with all the necessary connections for pipes of various sizes for investigations on frictional resistance. The pressures are measured by recording gauges, etc.

(g) A flume about 35 feet in length, by 5 ft. in width by 3 ft. 6 ins. in depth.

(*h*) Weirs up to 5 ft. in width, and with a depth of water over the sill varying from nil to 8 inches. A weir-depthing machine, with three adjustable heads, gives the surface depth of the stream at any three points in a transverse section. The velocity of the stream is also determined by means of a double Pitôt tube.

(*i*) Numerous hydraulic pressure-gauges.

(*j*) A mercury column 60 feet in height.

(*k*) Gauge-testing apparatus.

(*l*) Various rotary, and piston meters, and a Venturi meter.

(*m*) Apparatus for illustrating vortex motion.

(*n*) Apparatus for illustrating vortex ring motion, and for determining the critical velocity of water flowing through pipes.

(*o*) Five specially built gauging tanks with suitable indicators, each having a capacity of 800 cubic feet, for determining the critical velocity of water flowing through pipes. Also other portable tanks.

(*p*) Transmission and absorption dynamometers.

(*q*) An experimental centrifugal pump, which can be tested with varying heights of suction and discharge.

(*r*) An inward-flow turbine, a new American turbine, an outward-flow impulse turbine, a Pelton, and other motors and turbines.

(*s*) Graduated measures of various sizes; standard gallon and litre measures with glass strikes. This Laboratory is also provided with a set of pumps, specially designed for experimental work and research. They are adapted to work under all pressures up to 120 lbs. per sq. in., and at all speeds up to the highest found practicable. The set is composed of three vertical single acting plunger pumps of 7 in. diam., 18 in. stroke, driven from one shaft. They have two interchangeable valve chests, and it is arranged that both the valves and their seats may be removed and replaced by others. The pumps are also provided with a double set of continuous recording indicators designed in the laboratory and having electrical connections. With these, an accurate record of the suction and discharge valves may be obtained at any given time, all fluctuations of speed, pressure, etc., being automatically recorded.

(*t*) A three cylinder rotary hydraulic engine of the Brotherwood type has been added to the laboratory equipment during the past year.

8. **Mechanical Laboratory.** — The equipment of this Laboratory includes:—A belt-testing machine, capable of taking a six-inch belt at 15 feet centres (the machine includes a special hydraulic dynamometer, and a friction brake, and will absorb 15 H. P.); a Thurston railway-pattern oil-tester, fitted with water cooling and heating apparatus for varying the temperature of the brasses as desired; an Engler standard viscosimeter, and other necessary apparatus for the physical testing of lubricants; a specially designed hydraulic support and fittings for carrying out experiments on the action of cutting tools in the lathe; apparatus for experiments on the efficiency of pulleys and hoisting appliances, and on the efficiency of worm and other gearing; apparatus for governor-testing; apparatus for studying problems connected with the balancing of reciprocating engines.

This Laboratory is used in connection with the courses in Mechanical Engineering subjects.

9. **Metallurgical and Assaying Laboratories.**—These consist of a large furnace room of 2,200 sq. feet for metallurgical operations, a furnace room for assaying of 1,300 sq. feet, a balance room, small analytical laboratory, and parts of other rooms which are utilized for pyrometric and photo-microscopic work. The furnace room is fitted with a water-jacket blast-furnace, 24 inches inside diameter, for smelting lead and copper ores; also a hand reverberatory furnace for roasting ores, having a hearth 14 ft. by 6 ft., a Brückner roasting furnace and an English cupellation furnace.

It has also a large lead-lined chlorination-barrel for high pressures, with filter press, air pump, etc.

The furnace room adjoins the milling and ore dressing room (see below) and ores which have been crushed and dressed can easily

Macdonald Chemistry Building.—A Research Laboratory.

Macdonald Mining Building.—An Assay Room.

be conveyed into the furnace room for roasting, smelting or leaching treatments.

In addition to this comparatively large scale plant, apparatus is being provided to enable the students to study in detail the more important metallurgical operations using quantities of ore or metallurgical products of usually not more than a few pounds in weight. With such appliances the work of the student can be of a more individual character than is generally possible with large scale plant, and the reactions which occur can be more easily and exactly studied.

For the purpose of small scale work there is a large crucible furnace which can be used with either natural or forced draught, a large gas furnace which can be used either as an oven furnace or a muffle furnace, and a number of small muffle and crucible furnaces in the assaying laboratory.

In the autumn of 1901 the students erected a model brick blast furnace, and used it successfully for smelting copper ores. A Roots' blower has been provided for the blast furnaces, and connections for supplying forced draft have been made to the gas and reverberatory furnaces. Electric furnaces have been constructed for carrying on operations at very high temperatures, and there is a low voltage dynamo and storage battery for electrolytic work. Leaching operations on a small scale are conducted in stoppered bottles which can be agitated by machinery.

A powerful hydraulic press and a piece of apparatus for compressing gases by hydraulic power are available for experiments that have to be conducted under great pressure.

The Assaying Laboratory is equipped with a large soft coal assay furnace, and with a number of small muffle and crucible furnaces fired with coke; the large gas muffle furnace in the furnace room is also available for assaying purposes, and there is a small muffle furnace and a crucible furnace fired by gasoline.

Adjoining the assaying laboratory, is the balance room and a small laboratory for chemical work.

In another room are a number of electrical pyrometers of both the Le Chatelier and Callendar type, and a micro-photographic outfit for recording the microscopic structure of metals and alloys. A polishing machine, worked by power, has been installed to prepare the specimens for examination.

The courses of instruction in these laboratories are described in § XI, 11.

10. **Mining and Ore-Dressing Laboratories.** — The Department of Mining Engineering has one large laboratory for ore-dressing and a number of rooms of moderate size equipped for use as special laboratories, offices, lecture room, dark room, machine shop, etc. The effective floor space is about 6,600 square feet, in addition to which the departmental store rooms, ore bins, etc., have an area of 1,000 feet.

The ore-dressing laboratory proper has about 4,200 feet of floor space and is 25 feet high in the centre.

It is equipped with two classes of apparatus. First, a large number of pieces especially designed for individual work on a small scale. Many of these are for elementary investigations and demon-

strations of a theoretical nature, others are small scale reproductions of typical ore-dressing and milling machines. Second, a complete plant of standard apparatus for crushing, sampling, milling, concentrating and coal washing. The apparatus last mentioned has been chosen from the best designs in common use and each important class of ore-dressing machinery is represented by two or more different types in order that comparative tests may be made. Each machine is so arranged that it may be used, tested and cleaned up independently, but when expedient, a number of machines can be connected by automatic conveyors and thus complete working plants of many kinds can be improvised, each of sufficient capacity to test large lots of material under approximately working conditions.

The chief pieces of apparatus in the laboratory are rock-breakers of four kinds, Blake, Dodge, Gates and Sturtevant, for coarse crushing; Stamp mills of 600 and 950 lbs., respectively, and a small steam stamp for the fine crushing and amalgamating of gold ores; Huntingdon centrifugal roller mill, for crushing and amalgamating; high speed steel rolls for fine crushing; Gates' grinder for preparing samples, and a ball mill and several pans for extremely fine grinding.

Following these there is a Bridgman automatic sampler and a series of trommels and hand and power shaking screens for sizing the crushed ores; two specially designed jigs of two and four compartments, with adjustable eccentric, cam and slide mechanisms, a pneumatic jig, and several small hand and power jigs for coarse concentration; revolving, bumping and stationary glass tables; Frue vanner, Wilfley table; Bartlett table, Bartlett canvas table, etc., for separating valuable minerals contained in the fine sands and slimes; plates, pans and barrels for amalgamating gold and silver ores; vats and other apparatus for cyaniding, chlorinating and other leaching processes; spitzkasten, spitzlütte magnetic separators, coal washers, dolly tubs, and various other special pieces of ore-dressing apparatus.

An hydraulic lift and a complete series of belt and bucket elevators, feeders, samplers, etc., are provided for use in heavy continuous work. The motive power used is electricity, generated in the University power and light station, and utilized through a number of electric motors conveniently placed near the machines to be operated. The department is equipped with the most approved apparatus for electrical measurements, and is thus able to make frequent and accurate determinations of the amount of power used by each machine, and for any especial condition of use.

In addition to the main laboratory there are excellent facilities for advanced and research work—including a thoroughly equipped analytic and assay laboratory and a photographic room. The department possesses an excellent Fuess petrographical microscope, a good set of weighing and measuring devices, and a number of pieces of special apparatus for advanced theoretical investigation.

The courses of instruction in these laboratories are described in XI., 13.

11. **Petrographical Laboratory.** — The Petrographical Laboratory, containing the chief rock collection of the University, is situated in the Chemistry and Mining building. It is arranged for the use of students in the Mining Course as well as for those desiring to take advanced work, and is provided with a number of petrographical microscopes by Seibert, Crouch, and Fuess, as well as with models, sets of thin sections, electro-magnets, heavy solutions, etc., for petrographical work.

A collection of typical rocks has been especially prepared for the use of students, and a complete equipment for cutting, grinding, and polishing rocks, has been installed, which runs by electric power and gives excellent facilities for the preparation of thin sections for microscopic use.

For advanced work and petrographical investigation Dr. Adams' extensive private collection of rocks and thin sections is available for purposes of study and comparison.

12. **Physical Laboratory.**—The equipment of the Macdonald Laboratories comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by the students in practical work: (3) the most recent types of all the important instruments for exact measurement, to be used in connection with special work and research.

The basement contains the cellars, furnaces, and janitor's department at the west end of the building. The machine room—containing a small gas engine and dynamo, which are fitted for testing, but can also be used for light and power, a motor-alternator and a motor-dynamo—is situated at the extreme western corner of the basement so as to be as far removed as possible from the delicate magnetic and electrical instruments. Here is also the switch-board for controlling the various circuits for supplying direct or alternating current to different parts of the building, and a liquid air plant, consisting of a Whitehead torpedo air compressor, capable of giving 250 atmospheres, driven by a 11 H.P. electric motor, and a Hampson liquefier with a capacity of one litre per hour. The Accumulator Room contains a few large storage cells, charged by the motor-dynamo, which are fitted with a suitable series-parallel arrangement, and with rheostats for obtaining and controlling large currents up to 4,000 amperes for testing ammeters and low resistances, etc.

The magnetic Laboratory contains magnetic instruments and variometers of different patterns, and, also a duplicate of the B. A. Electro-dynamometer, which has been completely remodelled and set up with great care for absolute measurement of current. The laboratory, on the opposite side of the basement, contains a very fine Lorenz apparatus for the absolute measurement of resistance, constructed under the supervision of Prof. Viriamu Jones. It also contains a set of Ewing Seismographs and a pair of Darwin recording mirrors for measuring small movements of the soil.

There is a constant temperature room, surrounded by double walls, which contains a Standard Rieffler clock, and is fitted for comparator work.

The ground floor contains at the western corner a small machine shop, fitted with a milling machine and suitable lathes and tools driven by electric motors, and such appliances as are required for the making and repairing of the instruments, for which the services of a mechanical assistant are retained. There is also a store room for glass, chemicals, and cleaning materials, and extensive lockers and lavatories for the use of the students.

The main Electrical Laboratory is a room 60 feet by 40, and is fitted with a number of brick piers, which come up through the floor, and rest on independent foundations, in addition to the usual slate shelves round the walls. This room contains a large number of electrometers, galvanometers, potentiometers and other testing

instruments of various patterns, and adapted for different uses. It connects with a smaller room at the side, in which are kept the resistance boxes and standards, and also the capacity standards. The laboratory is fitted up for the study of electrical discharge in high vacua and for work on the conductivity of gases, and on radio-activity.

The first floor contains the main Lecture Theatre, with seats for about 250 students. The lecture table is supported on separate piers, which are independent of the floor. Complete arrangements are provided for optical projection and illustration. The Preparation Room in the rear contains many of the larger pieces of lecture apparatus, but the majority of the instruments, when not in use are kept in suitable cases in the adjoining apparatus room. On the same floor there is the Heat Laboratory, devoted to advanced work in Thermometry, Pyrometry and Calorimetry, and also to such electrical work as involves the use of thermostats and the measurement of the effects of temperature. There are also two smaller rooms for Professors and Demonstrators.

The second floor is partly occupied by the upper half of the Lecture Theatre. There is also an Examination Room for paper work, a Mathematical Lecture Room, with a special apparatus room devoted to apparatus for illustrating Mathematical Physics, and a special Physical Library chiefly devoted to reference books and periodicals relating to Physics. A store room, lavatories, and Professors' room occupy the remainder of the flat.

The third floor contains the Elementary Laboratory, a room 60 feet square, devoted to elementary practical work in Heat, Light, and Sound, and Electricity and Magnetism. There is a Demonstrator's Room adjoining, and an optical annex devoted to experiments with lenses, galvanometers and polarimeters. Also a series of smaller optical rooms, including a photometric room, specially fitted for arc photometry, and a dark room for photographic work.

Mathematics and Dynamics. — Part of this floor, allotted to the subject of Mechanics, contains instruments for measuring length, area, volume, time, mass; Atwood machines and a Galileo Inclined Plane for the study of the Laws of Motion; Willis Apparatus for experiments in Statics and Friction on a large scale; Simple, Kater and Ballistic Pendulums; and torsion and rotation apparatus for determining moments of inertia. The practical work in this section is arranged to run parallel with and illustrate the lectures in Dynamics delivered in the first year, and also those in the second year of the Faculty of Arts.

13. **Testing Laboratories.**—The principal experiments carried out in these will relate to the elasticity and strength of materials, friction, the theory of structures, the accuracy of springs, gauges, dynamometers, etc. The equipment of this laboratory includes:—

(*a*) A Richlé testing machine of 60,000 lbs. capacity, a Wicksteed 100-ton and an Emery 50-ton machine for testing the tensile, compressive and transverse strength of the several materials of construction. To the Wicksteed has been added a specially designed arrangement, by which the transverse strength of girders and beams up to 26 ft. in length can be determined. These machines are provided with the holders required for the various kinds of tests,

and new holders have also been specially designed and made in the laboratory for investigating the tensile and shearing strength of timber for wire rope and belt tests, etc. Numerous attachments have also been made to the machines, which have already increased their efficiency. The most recent addition is a double-bearing support for transverse testing.

(*b*) An Impact Machine, with a drop of 30 ft, and with gearing which will enable specimens to be rotated at any required speed, and the blows to be repeated at any required intervals. By means of a revolving drum, a continuous and accurate record of the deflections of the specimens under the blows can be obtained.

(*c*) An Unwin Torsion Machine with a specially designed angle-measurer, by which the amount of the torsion can be measured with extreme accuracy.

(*d*) An Accumulator, furnishing a pressure of 3,600 lbs. per square inch, which is transmitted to the several testing machines, and ensures a perfectly steady application of stress, an impossibility when any form of pump is substituted for an Accumulator.

(*e*) A Blake and a Worthington Steam Pump, designed to work against a pressure of 3,600 lbs. per square inch. The Accumulator may be actuated by either of the pumps, and, if at any time it is desirable to do so, either of the pumps may be employed to actuate the testing machine direct. When in operation the work of the pump and the accumulator is automatic.

(*f*) Extensometers of the Ewing, Unwin, Martens, Marshall and other types. The extensometer equipment has recently been enriched by seven sets of improved extensometer apparatus designed and made in the laboratory and by the purchase of a Ewing extensometer of the improved pattern.

(*g*) Portable cathetometers, and also a large cathetometer specially designed and constructed for the determination of the extensions, compressions and deflections of the specimens under stress in the testing machines.

(*h*) An automatic electric motor pump for actuating the Accumulator; also various electric motors for working the several machines.

(*i*) A drying oven for beams up to 26 ft. in length. The hot air in this oven is kept in circulation by means of a fan driven by an electric motor.

(*j*) Numerous gauges, amongst which may be specially noticed an Emery pressure gauge, graduated in single lbs. up to 2,500 lbs. per square inch. All of the testing machines are on the same pressure circuit, and are connected with the Emery gauge and also other standard gauges, including recording gauges. This arrangement provides a practically perfect means of checking the accuracy of the testing.

(*k*) Special apparatus and recording gauge for the testing of hose, etc.

(*l*) Dynamometers for measuring the strength of textile fabrics, the holding power of nails, etc.

(*m*) Apparatus for determining the elasticity of long wires.

(*n*) Apparatus for determining the hardness of materials of construction.

(*o*) Zeiss and other microscopes.

(*p*) Delicate chemical and other balances. A very important part of the equipment is the Oertling balance, capable of indicating with extreme accuracy weights of from .00001 lb. up to 125 lbs.

(*q*) Apparatus for the microscopic study of metals and for microscopic photography.

(*r*) Micrometers of all kinds.

(*s*) A transverse bending machine which is adapted for loads up to 3000 lbs. and for beams of 10 ft. span and a testing machine for applying bending and torsion simultaneously.

t) Small beam testing machines, used to illustrate the laws of the bending of beams, both when the ends are free and when they are fixed.

(*u*) Two small tension machines, in which experiments are made on metals, the strains being within the elastic limit.

(*v*) Apparatus with experiments for long wires, adapted for experiments on wires 60 ft. in length.

(*w*) A lever machine of experiments on alternate twisting.

(*x*) A testing machine for breaking tests on wires.

(*y*) A powerful hydraulic press for compression tests on metals, cements, stone and similar materials.

(*z*) Apparatus for measuring strains of compression.

14. **Thermodynamic Laboratory.** — The Thermodynamic Laboratory is furnished with an experimental steam engine of 120 I. H. P., specially designed for investigating the behaviour of steam under various conditions; the cylinders are 6½ inches, 9 inches, 13 inches, and 18 inches in diameter, and the stroke of all the pistons is 15 inches. The cylinders can be so connected as to allow of working as a simple, compound, triple, or quadruple expansion engine, either condensing or non-condensing, and with any desired rate of expansion. The jackets are so fitted as to permit of measuring independently the water condensed in the cover, barrel, or bottom jacket of each cylinder, and the engine can be worked with any desired initial pressure up to 200 lbs. per square inch. The measurements of heat are made by means of large tanks, which receive the cooling water and the condensed steam. There is an independent surface condenser and air pump. Two hydraulic absorption brakes and an alternative friction brake serve to measure the mechanical power developed.

The Laboratory also contains the following machinery:—

A Robb automatic cut-off engine, having a cylinder 10 1-2 inches in diameter by 12 inches stroke. This engine is specially fitted up for the measurement of cylinder temperatures, and can be run at speeds up to 300 revolutions per minute.

An automatic high speed engine by Macintosh & Seymour, having a cylinder 12 inches diameter by 12 1-2 inches stroke. Automatic recording apparatus, registering the load on the brake of this engine, has been constructed and fitted up during the past session.

A hot-air engine built by Woodbury Merrill of Ticonderoga.

An Atkinson "Cycle" gas engine, having a cylinder 7 inches diameter by 2 inches stroke, and indicating 6 H. P.

An Otto gas engine (built in the workshops of the Department), having a cylinder 8 1-2 inches diameter by 12 inches stroke, and indicating 12 H. P.

A "Dake" steam engine of 4 H. P.

A two stage air compressor taking 40 H. P., and having cylinders 10 inches and 17 inches in diameter, by 15 inches stroke. The compressor delivers its air into reservoirs placed beneath the floor of the machine shop, and is provided with an intercooler whose capacity can be varied as desired.

A high speed horizontal engine having a cylinder 6 inches diameter by 9 inches stroke, and operated by compressed air.

A gas-fired preheater for the above engine.

A standard 9 1-2 inch Westinghouse air brake pump, fitted for testing and for supplying compressed air for experimental and other purposes.

A non-rotative Blake steam pump, having steam and water cylinders, 4½ and 2¾ inches diameter and 4½ inches stroke.

The smaller apparatus belonging to the laboratory includes the necessary equipment of weighing machines, brakes, calorimeters, thermometers, gauges, pyrometers, fuel testers, indicators, planimeters, and a Moscrop recorder.

The boiler installation of the Engineering Building supplies steam for heating and power purposes, and is so arranged as to be available for experimental work in connection with the Thermodynamic Laboratory. It comprises boilers of five distinct types as follows:—

One Cornish boiler, for heating service, rated at 50 H. P.

One locomotive boiler, Belpaire type, 100 H. P.

One internally fired tubular boiler, 120 H. P.

Two Babcock-Wilcox water-tube boilers, each 60 H. P.

One Yarrow water-tube boiler, fitted in a closed stokehold, for working under forced draft, rated at 150 H. P.

These boilers are provided with the necessary tanks, weighing-machines and apparatus for carrying out evaporative tests.

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§ XIII. Museums.

The Peter Redpath Museum. — The Peter Redpath Museum contains large and valuable collections in Botany, Zoology, Mineralogy and Geology, arranged in such a manner as to facilitate the work in these departments. Students have access to this Museum, in connection with their attendance on the classes in Arts in the subjects above named, and also by tickets which can be obtained on application.

Engineering Museum. — This Museum occupies the third storey of the Engineering Building, and amongst other apparatus, contains the Reuleaux collection of kinematic models, presented by Sir William Macdonald, and pronounced by Professor Reuleaux to be the finest and most complete collection in America.

Architectural Equipment. — The Architectural Department has been endowed by Sir Wm. Macdonald, the founder, with a very thorough equipment for practical purposes of instruction. In the Museum

of the Engineering Building is included a large collection of casts both of architectural detail and ornament (illustrative of the historical development of the various styles) and of architectural and figure sculpture. The freehand-drawing classes for architectural students, as also the classes of architectural drawing and design, are conducted in this portion of the building.

A special architectural department has been added to the University Library; text-books and other works have been added to the Faculty Library. A collection of photographs is placed in the architectural room for the use of students in the class of design, in addition to a select reference library of illustrated works. Diagrams and lantern slides are used in illustration of the historical courses; models and specimens of materials and fittings in those on Building Construction, Sanitation, etc.

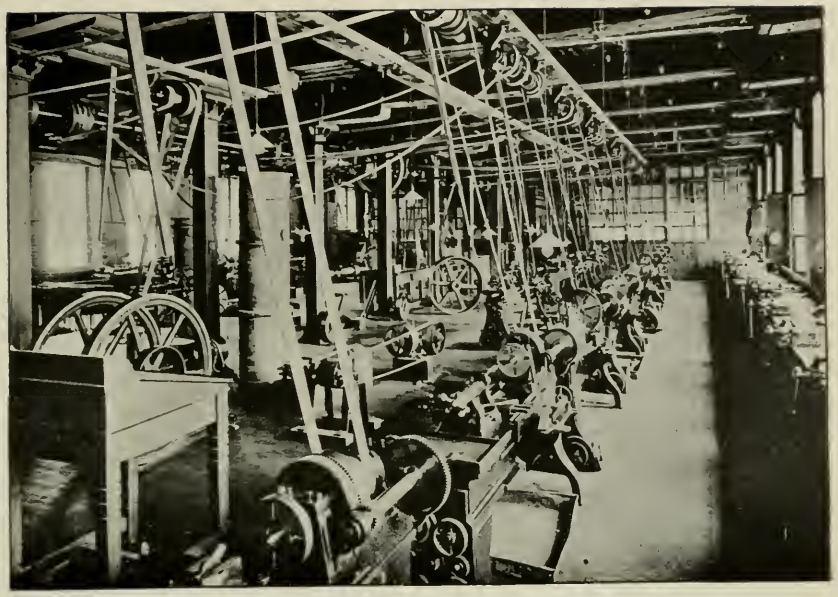
§ XIV. Workshops and Workshop Instruction.

The Workshops, erected on the Thomas Workman Endowment, have a total floor area of more than 25,000 square feet. The course in shopwork is intended to afford some preparation for that study of workshop practice on a commercial scale which every engineer has to carry out for himself. With this end in view, the student works in the various shops of the department, and completes in each a series of practical exercises. He thus obtains some knowledge of the nature and properties of the various materials he employs; he becomes familiar with the use and care of the more important hand and machine tools; and he acquires some manual skill.

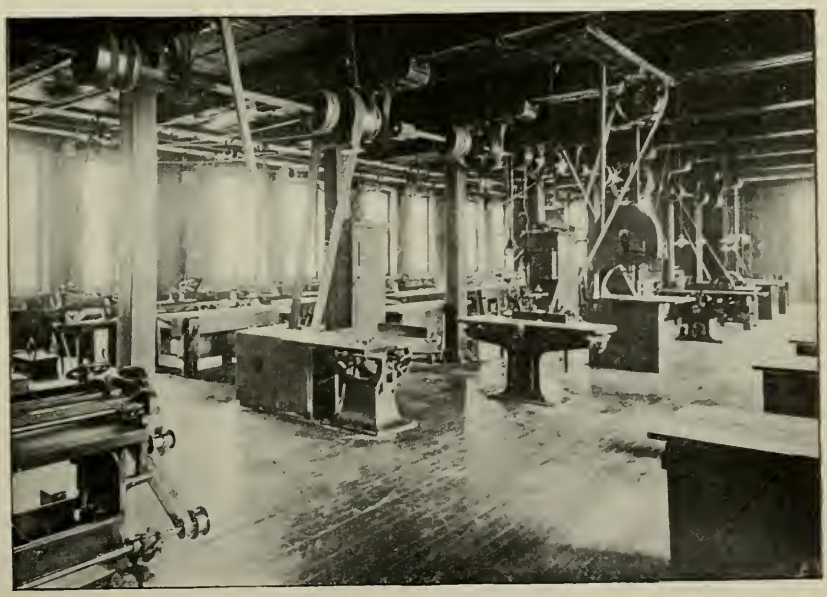
The instruction thus obtained must, however, be continued and supplemented. For this purpose students are expected to spend the greater portion of each long vacation in gaining practical experience in some engineering workshops outside the University.

Throughout the course, advanced students are as far as possible entrusted with the construction and erection of machinery and apparatus which afterwards form part of the equipment of the department. An air-compressor, a boring bar, a belt-testing machine, and a duplex feed pump, are examples of the work which has been done in this manner. Such students are also encouraged to see and assist in the repairs required by the engines, boilers and machine tools in the engineering building.

Equipment.—The Carpenter Shop and the Pattern Shop contain thirty-eight carpenters' and pattern-makers' benches



Machine Shop.



Pattern Shop.

complete with the necessary sets of hand tools, twenty-two wood-turning lathes with their turning tools, a large pattern-makers' lathe for faceplate work, one circular saw bench, a jig saw, a band saw, two wood trimmers, a surface planer, a thickness planer, a mortising machine, a saw-sharpener, and one universal wood-working machine.

The Smith Shop is provided with sixteen Sturtevant forges which are power-driven and are connected with an exhaust fan. There is a power hammer, and the necessary equipment of anvils, swage blocks, sets, flatteners and other tools. Provision is made for instruction in soldering and brazing, and for an elementary course in ornamental wrought iron work in connection with the architectural course.

The Foundry has benches, tools and apparatus for bench and floor moulding and core-making, and is able to accommodate twenty students. A gas-fired brass melting furnace, a cupola for melting iron, and the necessary core-ovens and core-benches give facilities for undertaking iron foundry work in green and dry sand, and for brass moulding. The shop is served by a hand travelling crane of one ton capacity.

The Machine Shop has twelve 18-inch engine lathes, one 18-in turret lathe fitted for stud and screw making, one 27-inch engine lathe, one 72-inch surfacing lathe, one brass-finishing lathe, one 36-inch vertical drilling machine with compound table, one universal milling machine with vertical milling attachment and dividing headstock, one planer capable of taking work up to 24″ × 24″ × 5 ft., one 9-inch slotting machine, one 16-inch shaper, one universal grinding machine, centering machine, a cutter grinder, a tool grinder and a buffing and emery grinding machine. There are vise benches for eighteen students, with the necessary hand-tools, and a marking-off table. The tool-room contains a full equipment of drills, reamers, milling centers, and accessories, gauges callipers, and other measuring instruments.

All the machinery in the Workshops is driven electrically by motors taking power from the generating station in the Macdonald Building.

INSTRUCTORS IN SHOPWORK.

CARPENTER SHOP AND PATTERN SHOP .....G. WOOLEY.
SMITH SHOP .....J. STEWART.
FOUNDRY .....H. LANE.
MACHINE SHOP.....A. W. MILLER.

The work of the various shops is carried out under the direction of the Professor of Mechanical Engineering. The following are the subjects of instruction:—

Carpentry and Joiner Work.—Sharpening and care of wood-working tools. Sawing, planing and paring to size. Preparation of flat surfaces, parallel strips, and rectangular blocks. Construction of the principal joints employed in carpentry and joiner work, such as end and middle lap joints, end and middle mortise and tenon joints, mitres, and dado and sash joints. Dovetailing, scarfing. Joints used in roof and girder work. Wood-turning, use of wood-turning tools.

Pattern making.—Use of pattern-makers' tools. Elements of pattern-making, allowances to be made for draught and for contraction in moulding and casting, use of contraction rule. Preparation of prints and plain core-boxes. Exercises in paring and turning. Construction of patterns and core boxes for pipes, flanges, elbows, tees, and valves. More difficult exercises in pattern-making, including built-up patterns and face-plate work. Gear and wheel patterns.

Smith-work.—The forge and its tools. Use and care of smiths' tools. Management of fire. Use of anvil and swage-block. Drawing taper, square and parallel work. Bending, upsetting. twisting, punching, and cutting. Welding and scarfing. Forging, hardening, and tempering tools for forge and machine work. Tempering drills, dies, taps, and springs.

Foundry-work.—Moulders' tools and materials used in foundry work. The cupola. The brass furnace. Preparation of moulding sand. Boxes and flasks. Core-making. Use of core-irons. Bench moulding. Blackening, coring and finishing moulds. Vents, gates and risers. Special methods required in brass moulding. Floor moulding. Open sand work. Advanced examples of moulders' work. Melting and pouring metal. Mixtures for iron and brass casting.

Machine-shop Work.—Exercises in chipping. Preparation of flat surfaces. Filing to straight edge and surface plate. Scraping, screwing and tapping. Use of scribing block and surface gauge. Marking off work for lathes and other machines. Turning and boring cylindrical work to gauge. Surfacing. Screw-cutting and preparation of screw-cutting tools. Use of turret lathe. Taper turning. Machining flat and curved surfaces on the planing and shaping machines. Plain and circular milling with vertical and horizontal spindles; gear-cutting. Cutter-grinding. Drilling and boring. Use of jigs. Grinding flat and cylindrical surfaces. Cutting tools for hand and machine; their cutting angles and speeds. Dressing and grinding tools.

XV. Statement of Research Work in the Laboratories, 1904-1905.

Recent researches on the effect of stress upon metals.—Dr. E. G. Coker.

An apparatus for measuring lateral strain, with an account of some experiments on the determination of the values of Poisson's ratio for metals.—Dr. E. G. Coker.

On the determination of loss of head due to bends in pipes. —C. J. Chaplin.

On the efficiency and economy of a Brotherhood water motor.—C. J. Chaplin.

On the distribution of pressure over the surface of a concave hemispherical vane.—C. J. Chaplin.

On the current conduction of the atmosphere.—J. H. Cardew.

On the application of roasting and leaching processes to the Le Roi ores.—J. H. Grice.

FACULTY OF APPLIED SCIENCE.

Christmas Examinations—December, 1905.

(Subject to Alteration by the Faculty.)

Day and Date.	First Year.	Second Year.	Third Year.	Fourth Year.
Friday, 15.....A.M.	Dynamics		D. C. Dyn. Mach.	Mech. Engin.
P.M.		Chemistry (*M*)	Geology (*M*).	
Saturday, 16...A.M.		Surveying (*D*)	Graph. Stat. (*D*).	Ore Dressing (*C*).
P.M.			Roads and Canals (*D*)	Roads and Canals (*D*)
				Can. Geology (*C*)
Monday, 18.....A.M.		Mechanics.	Surveying (*D*)	Hydraulics.
			Qual. Anal.	
P.M.	Exp. Physics.			Hydraul. Lab.
Tuesday, 19....A.M.		Analyt. Geom.	Mathematics.	Pract. Astron.
				Mach. Design
				Metallurgy.
P.M.	Geometry			
Wednesday, 20.A.M.	Geom. Drawing (*D*).	Exp. Physics.	Metallurgy.	Mineralogy. (*C*).
				Elect. Lighting.

(*C*). Chemistry Bldg. (*D*). Drawing Rooms, Engin. Bldg. (*M*). Molson Hall. All other examinations will be held in the Main Examination Hall.

Note.—The examinations begin at 9 a.m. and 2.30 p.m.

N.B.—Gowns will not be worn at the examinations.

FACULTY OF APPLIED SCIENCE.

April Examinations, 1906.

(Subject to Alteration by the Faculty.)

Day and Date.	First Year.	Second Year.	Third Year.	Fourth Year
Monday, April 2.....A.M.	Desc. Geom. (*D*)	Desc. Geom. (*D*)	Theo. Struct. Indus. Chem.	Theo. Struct. Metall. Cu. & Pl Elect. Traction Mechl. Engin.
Tuesday, April 3 .....A.M.		Calculus.	Anal. Chem. Bldg. Trds. (*D*).	Petrography (*C*). Designing, (*D*).
P.M.				Designing, (*D*).
Wednesday, April 4 . A.M.	Algebra.	Materials of Construction.	Plumb. & Heating. Pract. Astron. D. C. Dynamo.	Mining. Geodesy. Thermo. Lab.
P.M.				
Thursday, April 5.....A.M.		Arch. Details (*L*).	Arch. Details (*D*) Thermodyn. Mineralogy (*C*).	Ore Dressing Thermodyn.
P.M.		Prac. Chem. (*C*). ½ Class.		
Friday, April 6.....A.M.	Phys. Lab. (*P*). ½ Class.	Kin. of Mach.	Testing Lab.	Theo. Struct. Ore Deposits, (*C*).
P.M.		Theor. and Evol. Archt. Prac. Chem. (*C*) ½ Class.	Struct. Engin. Elect. Meas.	Struct. Engin.
Saturday, April 7.....A.M.	Exp. Physics.	Exp. Phys. Hist. of Arch.	Ore Dressing. History of Arch. Munic. Eng.	Mining and Met. Design, (*C*). Munic. Eng.
Monday, April 9..... A.M.	Phys. Lab. (*P*). ½ Class.	Bldg. Const. (*D*)	Mechanics. Struc. Details (*D*)	Electro-Chem. (opt). Hydraulics, (opt).
P.M.				Metall. (opt). Gas Anal. (*C*).
Tuesday, April 10.... A.M.	Phys. Lab. (*P*). ½ Class.	Chemistry (*M*).	Org. Chem. (*M*). Desc. Geom. (*D*). Mech. Draw. (*D*).	Phys. Chem., (*C*). Hyd. Mach.
P.M.		Mech. Drawing (*D*).	Assaying (*C*).	Phys. Chem., (*C*).
Wednesday, April 11..A.M.	Trigonometry	Surv. (*D*).	Geology (*M*). Dyn. of Mach.	Min. Anal. (*C*) Dyn. of Mach.
P.M.			Geology (*M*).	
Thursday, April 12....A.M.		Phys. Lab.	Mach. Design. R. R. Eng. (*D*).	Mach. Design. R. R. Eng (*D*). Metall. (opt). A. C. Mach.
P.M.			Transport. (*D*).	Phys. and P. G. (*C*) (opt)

All examinations begin at 9 a.m. and 2.30 p.m.

(*C*). Chemistry Bldg.. (*D*). Drawing Rooms, Engin. Bldg. (*M*) Molson Hall. All other examinations will be held in the Main Examination Hall.

N. B.—Gowns will not be worn at the examinations

Faculty of Law.

(Macdonald Foundation.)

The Curriculum extends over three years. It includes lectures upon all the branches of the Law administered in the Province of Quebec, and also upon Roman Law, Legal History, and the Constitutional Law of England, and of the Dominion. Its primary design is to afford a comprehensive legal education for students who intend to practise at the Bar of the Province. In all the courses the attention of students will be directed to the sources of the Law, and to its historical development. During their First Year the students will attend one hundred lectures on Roman Law, from which the law of this Province is in great part derived. In the lectures on Legal History, the history of our law since the Cession, and its relations to the French and to the English law, will be explained. First Year Students will also attend courses on the Law of Persons; the Law of Real Estate; the Law of Obligations; the Elementary rules of Procedure; and an introductory course on Criminal Law. The remaining branches of law, civil, commercial, and criminal, will be dealt with in the Second and Third years. During the three years the Civil Code, the Criminal Code, and the Code of Civil Procedure will be covered, and lectures will also be given upon subjects, such as Bills of Exchange, Merchant Shipping, and Banking, which are regulated mainly by special statutes. In the Session 1905-6 an additional course will be given on the organization of Companies.

Students have the free use of the Law Library of the Faculty, to which large additions are continually being made, those lately added including, among many others, the Ontario Reports, the Nova Scotia Reports, Dalloz, Recueil Périodique, Campbell's Ruling Cases, the Encyclopædia of the Laws of England, the new series entitled "The English Reports," the Ameri-

can and English Encyclopædia of Law and the American and English Encyclopædia of Pleading and Practice. It is hoped that before long this Library will contain all the Reports of the several Provinces of Canada. The principal reports and legal periodicals are taken. A special room for Law Students is provided in the University Library. This room is open during the day, and in the evenings from eight to ten o'clock.

The lectures are delivered in the rooms furnished for the Faculty in the east wing of McGill College by its munificent benefactor, Sir Wm. C. Macdonald. The Faculty desire to impress upon English students the great importance of obtaining a familiar knowledge of French. In the practice of the profession in this Province it is indispensable that a lawyer shall be able to write and speak French. The Faculty are determined to exact a high standard in this subject, and a new regulation to secure this end will be found below. Moot Courts are held from time to time in order to afford practise in the presentation of legal arguments.

Those students who are able to take the B.A. course before entering upon their legal studies are strongly recommended to do so. Those for whom this is impossible are advised to attend courses in the Faculty of Arts for two years.

Matriculation.

The particulars of the Matriculation Examination in the Faculty of Law are given on pp. 18 to 23.

In this connection the attention of candidates is particularly drawn to the following important regulation:—

"At and after the commencement of the session 1906-07 no candidate domiciled in the Province of Quebec shall be admitted as an undergraduate in the Faculty of Law who shall not, in addition to other matriculation requirements, possess an adequate knowledge of French. Every candidate for admission as an undergraduate, whether exempt from the matriculation examination or not, shall be specially examined in this subject by an examiner appointed by the Corporation on the recommendation of the Matriculation Board, before being allowed to enter, and shall not be

considered to possess an adequate knowledge, unless he can speak the language with fair fluency and can translate with ease a passage of English into French."

The attention of students who intend to practise law in the Province of Quebec, or to be admitted to the notarial profession, is called to the statutory requirements as to admission to study. These will be found on pp. 252-255.

Scholarships and Prizes.

Various scholarships and prizes will be awarded to the students of each year who obtain the highest distinction at the Examinations held at the close of the Session.

No scholarship or prize will, however, be awarded to any student unless in the estimation of the Faculty a sufficiently high standing be attained to merit it.

Faculty Regulations.

1. Students of Law shall be known as of the First, Second, and Third Year, and shall be so graded by the Faculty. In each year, students shall take the studies fixed for that year, and those only, unless by special permission of the Faculty.

2. The Register of Matriculation shall be closed on the 1st of October in each year, and return thereof shall be immediately made by the Dean to the Registrar of the University. Candidates applying thereafter may be admitted on a special examination to be determined by the Faculty; and, if admitted, their names shall be returned in a supplementary list to the Registrar.

3. The lectures will be delivered between the hours of half-past 8 and half-past 9 in the morning, and between 4 and half-past 6 in the afternoon; and special lectures in the evening at such hours and in such order as shall be determined by the Faculty. Professors shall have the right to substitute an examination for any such lecture.

4. At the end of each College Year there shall be a general examination of all the classes, under the superintendence of the Professors, and of such other examiners as may be appointed by the Corporation. The examination

shall be conducted by means of printed questions, answered by the students in writing in the presence of the examiners. The result shall be reported as early as possible to the Faculty.

After the examination, the Faculty shall decide the general standing of the students.

5. At the end of the Third College Year there shall be a Final Examination of those students who have completed the Curriculum. This Examination shall be conducted by written papers, which may be supplemented by an oral examination. It shall cover all the subjects upon which lectures have been delivered during the three years' course. Those students who satisfy the examiners shall be entitled, after making the necessary declaration and payment of the Graduation Fee, to proceed to the Degree of B.C.L. The Elizabeth Torrance Gold Medal shall be awarded to the student who shall obtain the highest marks in the Examination, provided his answers shall, in the estimation of the Faculty, be of sufficient merit to entitle him to this distinction. There shall be no Sessional Examination of students who are candidates in the Final Examination.

6. No student shall be considered as having kept a Session unless he shall have attended regularly all the Courses of Lectures, and shall have passed the Sessional Examinations to the satisfaction of the Faculty in the classes of his year.

7. The Faculty shall have the power, upon special and sufficient cause shown, to grant a dispensation to any student from attendance on any particular Course or Courses of Lectures, but no distinction shall in consequence be made between the Examinations of such students and those of the students regularly attending Lectures.

8. Every Candidate, before receiving the Degree of B.C.L., shall make and sign the following declaration:—

Ego A.B. polliceor sancteque recipio, me, pro meis viribus, studiosum fore communis hujus Universitatis boni, et operam daturum ut ejus decus et dignitatem promoveam, et officiis omnibus ad Baccalaureatus in Jure Civili gradum pertinentibus fungar.

Fees.

See page 37.

Special Holidays.

On the following days, when they fall within the session, no lectures will be delivered, viz.: Ash Wednesday, Good Friday, Easter Monday, and Thanksgiving Day. On the following days the morning lectures will be omitted, viz.: All Saints' Day (Nov. 1st), and December 8th.

Examinations.

The University Examinations are held in April, at the close of the session.

COURSES OF LECTURES.

Roman Law.

PROFESSOR WALTON.

During the first part the external history of the law from the early period to the codification of Justinian will be dealt with. The sources of the law will be described, and the gradual evolution explained by which the law of the city of Rome became fitted to be the law of the civilized world. A brief sketch will be given of the legal institutions of Rome in the first period and of the early constitutional history.

In the doctrinal part of the course matters mainly of antiquarian interest will be touched on but slightly. Those portions of the Roman Law which have been followed most closely in the existing law of the Province, *e.g.*, Property, Servitudes, Pignus and Hypothec, and Obligations, will be treated in detail, and the modifications made by the modern law will be noticed. Class-examinations will be held from time to time, and a first and second prize of books will be given to the two students who obtain the highest marks in these examinations.

Text-books—For the historical part, Walton's Historical Introduction to the Roman Law; and for the Institutes, Moyle's or Sandar's Institutes of Justinian, or Girard, Manuel de Droit Romain.

Books of Reference:
Muirhead's Historical Introduction to Roman Law.
Muirhead's Institutes of Gaius.
Maynz, Cours de Droit Romain.
Puchta, Institutionen.
Maine's Ancient Law.

Constitutional and Administrative Law.

PROFESSOR WALTON.

The object of this course is to shew the actual working of the Canadian Constitution. A sketch of the Constitutional History prior to Confederation is given. The B. N. A. Act is explained, and the leading cases discussed which illustrate the respective powers of the Federal and of the Provincial Legislatures. The growth of Cabinet Government is traced, and some of the fundamental rules of the English Constitution are expounded and contrasted with those followed in other countries.

No text-book is prescribed, but students are recommended to refer to Todd, Parliamentary Government in the British Colonies; Houston, Constitutional Documents of Canada; Dicey, Law of the Constitution; Anson, Law and Custom of the Constitution.

Obligations—Advanced Course.

PROFESSOR WALTON.

This course is delivered to students of all the three years together.

Its object is to explain important parts of the law of obligations in more detail than is possible in the general course on the subject.

The method is mainly the explanation of illustrative cases. Frequent references are made to French and English decisions.

Legal History and Bibliography.

PROFESSOR MCGOUN.

This course comprises an outline of the history of the law in force in the Province of Quebec.

The following outline of the course may be given:—

The main source from which our law is derived is the Customary Law of France, as modified by the principles of

Roman Law, embodied in several of the codes or collections of Roman Law before the time of Justinian.. The Customs of France after being reduced to writing were further modified by the influence of modern Roman Law, which prevailed throughout the larger part of France. The ordinances of the French kings and the commentaries of the great jurists, from Cujas and Dumoulin down to Pothier, brought the Civil Law of France into the systematic form in which it was introduced into this Province. The Custom of Paris, one of the most important of those recognized in France, became formally the basis of the Civil Law in this country, and the ordinance of 1667 was the main authority for procedure.

Since the opening of the British régime the development of Lower Canadian Civil Law has proceeded independently of the Civil Law of France, where the Code Napoléon was passed early in the Century. In Lower Canada a code on the same lines was adopted shortly before Confederation. Lower Canadian Civil Law has been modified by English Law in commercial matters, and also by statutes passed in the Province. The Criminal Law has been derived almost exclusively from the Criminal Law of England.

The leading authorities upon the main branches of the law, with the reports of decisions of our courts, are brought under the attention of the students in this course.

Agency and Partnership.

PROFESSOR MCGOUN.

This course begins with the principles of the law of Mandate, as laid down in the Civil Code of Lower Canada, and treats of Civil and Commercial Agency. The rights and liabilities of principal and agent both between themselves and in relation to third parties is considered, and special attention is directed to the powers of agents in selling, pledging, and dealing with the property of the principal. The law relating to Factors or Commission Merchants, Brokers, and other Agents is explained.

In partnership the right of each partner to bind his fellow partner in virtue of the mandate reciprocally given and enjoyed, leads to the distinction between Civil and

Commercial partnership, and the Limited Partnership or Société en Commandite is also treated of. The distinction between Partnership and Joint Stock Companies leads to a consideration of the connexion between this subject and the subject of Companies and Corporations which form the subject matter of a Course in alternate years on the Law of Corporations and of Joint Stock Companies, as follows:

Law of Corporations and of Joint Stock Companies.

This course is the sequel of the course on Agency and Partnership. The doctrine of limited liability, and the opportunity which it affords of carrying out enterprises of great importance, by means of capital contributed by a large number of individuals, is treated of in this course. The growth of Corporations, both those established by long custom, and those created by Royal Charter, or by Parliamentary or Legislative authority, is also explained, as well as the relation between these corporations and the ordinary forms of joint stock companies. Corporations sole and Corporations aggregate are defined, and the principles of laws relating to Corporations and Companies explained.

Criminal Law.

Professor Mr. Justice Davidson.

This course includes:

A history of the Criminal Law and Criminal Procedure of England, and of their introduction into and development throughout Canada; discussion of the Criminal Code and other Statutes enacting criminal offences; of the rules of evidence in criminal cases; of the Fugitive Offenders' Act; of extradition; and, generally, of the principal features belonging to the Criminal Law of the Dominion.

Commercial Law.

Professor R. C. Smith.

The subjects dealt with will include Commercial Sales, Bills and Notes, the law of Carriers, the law of Insurance and the law of Banks and Banking.

1. The course on Carriers will cover:
   (*a*) Carriers, contracts with;
   (*b*) Affreightment;

(*c*) Merchant Shipping;
(*d*) Bottomry and Respondentia.

2. The course on Insurance will cover:
(*a*) Insurance, contracts of;
(*b*) Marine Insurance;
(*c*) Fire Insurance;
(*d*) Life Insurance.

Civil Procedure.

Mr. Gordon W. Macdougall.

This course to the students of the First Year is intended to form an introduction to the subject, to explain the simpler kinds of actions, the general rules of pleading, and the jurisdiction of the several courts.

The revised Code of Civil Procedure for the Province of Quebec is the text-book.

During the Session 1905-1906 Mr. McDougall will give a course of ten lectures on Company Organization.

Persons.

Mr. Gordon W. Macdougall.

This course covers the Law of Acts of Civil Status, Absentees, Marriage, Separation, Divorce, Filiation, Minority and Interdiction.

Civil Procedure.

Mr. Percy C. Ryan.

The advanced course for the Second and Third Years covers all matters of procedure not dealt with in the First Year Course, and includes Provisional Remedies, such as capias, attachment before judgment, injunction, etc., and special proceedings, such as proceedings relating to corporations, and public offices, mandamus, etc., as well as the rules of pleading in the more complicated classes of action. The course also includes an explanation of the chief rules of the law of evidence. It will be divided into two parts, which will be taken in alternate years.

Marriage Covenants and Minor Contracts, Prescription, Lease, and Municipal Law.

Professor Mr. Justice Fortin.

Two courses—in alternate years.

Successions, Gifts, and Substitutions.

Professor Mr. Justice Doherty.

Two courses—in alternate years.

I. The Law of Succession.

The course consists of a commentary and explanation of the whole of Title I, and the Third Chapter of Title II of the Third Book of the Civil Code. The order followed by the Code in dealing with the different matters coming within the scope of this course, has however been departed from, with a view of presenting to the student the law governing successions as one whole. The subject will be developed as nearly as possible in the following order:—

I. General notions, definitions, and divisions of the subject;

The Testamentary Succession; The Ab-Intestate Succession.

2. Rules of Law common to both Successions.

3. Rules peculiar to the Testamentary Succession.

4. Rules peculiar to the Ab-Intestate Succession.

5. Partition of the Succession (and of property held in undivided ownership generally), its incidents and effects.

II. Gifts and Substitutions.

This course comprises a commentary on and explanation of Chapters I, II, and IV of Title II of the Third Book of the Civil Code, dealing with:

1. Gifts inter vivos.

2. Gifts in contemplation of death, as permitted in Contracts of Marriage.

3. Substitutions.

Obligations.

Mr. Aime Geoffrion.

This course of lectures will consist of a commentary on the title on obligations in the Civil Code, less the chapter of proof (articles 982 to 1,202 inclusive). Our law on the subject will be compared with the old French law and the modern French law, and its general principles will be explained and illustrated.

Real Property Law and Registration.

Professor Marler.

First Year Course—25 lectures.

Distinction of Things—Corporeal moveables and immoveables; Immoveables by incorporation and destination; Incorporeal property; Real and personal rights.

Ownership—Its characteristics and limitations; Possession, good and bad faith; Possessory actions; The Petitory Action; Their results on the Possessor; Accession, natural and industrial.

Usufruct—General characteristics; Fruits and their perception; Quasi-usufruct; Modes of enjoyment by usufructuary; His duties before and during usufruct; How terminated.

Registration—Its modes and formalities; The Cadastral System.

Second and Third Year Courses—50 *Lectures in alternate Courses.*

First Course—Mode of acquisition of Immoveables—25 Lectures.

In this Course, a Deed of Sale will be analyzed and its various clauses explained: The parties; The description and the measurement of land; The obligations of buyer and seller and the security for their performance; Warranty, its modifications and results; The form and registration of the deed; The rights of the wife; The distinctions between Sale and other modes of acquisition, and their effects on the parties.

Forced sales, their incidents and results.

Examination of Titles, practically considered.

Second Course:—Privileges and Hypothecs; Servitudes —25 Lectures.

Debts and Causes of Preference.

Characteristics of Hypothec; The various kinds, their history, conditions and effects; The Ranking of Hypothecs; The Hypothecary action, its characteristics, incidents and results.

Privileges on immoveables.

Registration of Privileges and Hypothecs.

Servitudes—Natural, legal and conventional; Water Courses and Streams; Walls and fences.

Public International Law.

PROFESSOR LAFLEUR.

Sovereignty and equality of Independent States; Recognition of Belligerency and Independence; Justifiable grounds of intervention; Modes of territorial acquisition; Territorial boundaries; Doctrine of Exterritoriality; Treaties and Arbitrations; Laws of War; Neutrality of States and of individuals; Laws of Blockade; Contraband; Confiscation; Prize-Courts and their jurisprudence.

The students' attention will be specially directed to Treaties, Diplomatic Relations, and International Arbitrations, in which Canada is directly concerned.

Private International Law.

PROFESSOR LAFLEUR.

Distinction between the *a priori* and positive methods; Sources of the positive law of Quebec on the subjects; Application and illustrations of the rules for solving conflicts of law in regard to the different titles of the Civil Code; Comparisons between our jurisprudence and that of England, France and Germany.

These two courses will be given in alternate years.

Requirements for the Degree of Doctor of Civil Law.

Adopted March, 1891.

Every candidate for the degree of D.C.L. in Course must be a bachelor of Civil Law of twelve years' standing, and must pass such examination for the Degree of D.C.L. as

shall be prescribed by the Faculty of Law. He shall also, at least two months before proceeding to the Degree, deliver to the Faculty twenty-five printed copies of a Thesis or Treatise of his own composition on some subject, selected or approved by the Faculty, such Thesis to contain not less than fifty octavo pages of printed matter, and to possess such degree of merit as shall, in the opinion of the Faculty, justify them in recommending him for the degree.

The Examination for the Degree of D.C.L. in Course, shall, until changed, be on the following subjects and authors, with the requirement of special proficiency in some one of the groups below indicated. In the groups other than the one selected by the Candidate for special proficiency, a thorough acquaintance with two works of each group shall be sufficient, including in all cases the work first mentioned in each group and the first two works in the third group. In the first group one work on Public and one on Private International Law must be offered.

1. International Law.

A. Public:—

Twiss, Sir T., Law of Nations.
Hall, W. E., International Law.
Harcourt, Sir W. V., Letters by *Historicus*.
Ortolan, T., Diplomatie de la Mer.
De Martens, Droit International.
Holland, Studies in International Law.

B. Private:—

Savigny, Private International Law (Ed. Guthrie).
Bar, Private International Law (Ed. Gillespie).
Foelix, Droit International Privé.
Laurent, Droit Civil International.
Brocher, Droit International Privé.
Fiore, Droit International Privé (Ed. Pradier-Fodéré).
Dicey, Conflict of Laws.
Story, Conflict of Laws.
Lafleur, E., Conflict of Laws.

2. Roman Law.

Maynz, Droit Romain.
Muirhead's Roman Law.
Girard, Manuel de Droit Romain.
Ortolan's Institutes (Ed. Labbé).
Savigny, Roman Law in the Middle Ages.
Cuq, Les Institutions Juridiques.
Puchta, Institutionen.
Krüger, Römische Rechtsquellen.
Roby's Introduction to the Digest.
Hunter's Roman Law.

3. Constitutional History and Law.

Dicey's Law of the Constitution.
Stubbs' Constitutional Law of England.
Hearn, Government of England.
Bagehot, English Constitution.
Franqueville, Gouvernement et Parlement Britanniques.
Gneist, Constitution of England.
Hallam, Constitutional History of England.
May, Constitutional History of England.
Gardiner, Constitutional History of England.
Freeman, Growth of the English Constitution.
Mill, Representative Government.
Anson, Law and Custom of the Constitution.

4. Constitution of Canada and Works Relevant Thereto.

Todd, Parliamentary Government in the British Colonies.
Bourinot, Federal Government in Canada.
Cartwright, Cases under the British North America Act.
Lord Durham's Report on British North America.
Lareau, Histoire du Droit Canadien.
Houston's Constitutional Documents of Canada.
Volume O., Statutes of Lower Canada.
Maseres' Collection of Quebec Commissions.
Viollet, Histoire du Droit Français.
Dilke, Problems of Greater Britain.
Bryce, American Commonwealth.
Cooley, Principles of Constitutional Law.
Curtis, History of the Constitution of the United States.

5. Criminal Law, Jurisprudence, and Political Science.

Stephen, History of the Criminal Law.
Blackstone, Vol. IV.
Harris, Principles of Criminal Law.
Holland, Elements of Jurisprudence.
Salmond's Jurisprudence.
Austin, Lectures, omitting chapters on Utilitarianism.
Lorimer's Institutes.
Amos, Science of Law.
Woolsey, Political Ethics.
Lieber, Political Ethics.
Freeman, Comparative Politics.
Aristotle's Politics, by Jowett.

APPENDIX.

The attention of intending students is called to the following provisions of the Revised Statutes of Quebec and amendments, as bearing on the requirements for the study and practice of Law in the Province.

I. Regulations Applicable to those who Intend to Become Members of the Bar.

Article 3544 R.S.Q.—Examinations for admission to study and to practice law in the Province of Quebec are held at the time and place determined by the General Council.

The examinations for the practice are held alternately in Montreal and Quebec every six months, namely—at Montreal, on the second Tuesday of each January, and at Quebec on the first Tuesday of each July.

All information concerning all these examinations can be obtained from the General Secretary's Office. The present General Secretary is Arthur Globensky, Esq., K.C., 97 St. James St., Montreal.

Article 3546.—Candidates must give notice as prescribed by this article at least one month for the study and fifteen days for the practice before the time fixed for the examination to the Secretary of the Section in which he has his domicile or in which he has resided for the past six months.

Article 3503a (added by Statute of Quebec, 1890, 53 Victoria, Cap. 45).—This article provides that Candidates holding the Diploma of Bachelor of Arts, Bachelier-ès-Lettres, or Bachelier-ès-Sciences from a Canadian or other British University are dispensed from the examination for admission to study. Such Candidates are required to give the notice mentioned above.

Article 3548 R.S.Q. (as altered by by-law of the General Council).—On giving the notice prescribed by Article 3546, the Candidate pays the Secretary a fee of $2, and makes a deposit of $45 for a complete certificate of admission to study; of $30 for a partial certificate of admission to study; and of $70 for admission to practice, which deposit, less $10, is returned in case of his not being admitted.

Article 3552 (amended 1894, Q. 57 Vic., c. 35)—To be admitted to practice, the Student must be a British subject, and must have studied regularly and without interruption during ordinary office hours, under indentures before a Notary as Clerk, or Student with a practising Advocate, during four years, *dating from the registration of the certificate of admission to study.* This term is reduced to three years in the case of a student who has followed a regular law course in a University or College in this Province and taken a degree in law therein.

The By-Laws passed by the General Council of the Bar of the Province of Quebec, 16th Sept., 1886, and amended 10th Feb., 1892, provide as follows:—

Art. 42.—A course of lectures on law given and followed at a University or College in this Province, and a diploma or degree conferred on students by such University or College, shall be held to be such as contemplated in Art. 3552 R.S.Q. only when the University or College conferring the degree and the student who receives it shall have efficiently followed the programme herein set forth. This article and article 44 shall apply to students already admitted only as regards lectures to be given after the 1st of January, 1887.

2. The subjects on which lectures shall be given, and the number of lectures required on each subject for a regular

course of lectures on law in a University or College shall be as follows:—

Roman Law:—103 Lectures:—This subject shall include an introduction to the study of Law and the explanation of and comments on the Institutes of Justinian and the principal jurisconsults of Rome.

Civil, Commercial, and Maritime Law:—413 Lectures:—Lectures on these subjects shall cover at least three years. They consist of the history of French and Canadian law, the explanation of and comments on the Civil Code of the Province of Quebec and the Statutes relating to Commerce and Merchant Shipping.

Civil Procedure:—103 Lectures:—Lectures on this subject shall extend over at least two years. It shall consist of the explanation of and comments on the Code of Civil Procedure and the Statutes amending it, the organization of the Civil Courts of this Province and the history of the different judicial systems of the country; also, the special modes of procedure provided by statutes and laws of general application.

International Law, Private and Public:—21 Lectures:—

Criminal Law:—69 Lectures:—This subject includes the history of criminal law in Canada, the constitution of criminal courts, criminal procedure, comments on statutes relating to criminal law, the relation of criminal law in Canada to the criminal law of England. The lectures shall extend over two years.

Administrative and Constitutional Law:—41 Lectures. —These subjects include an inquiry into the different political institutions and the public institutions of the country, the powers, organization and procedure of the Federal Parliament and of the Local Legislature, the laws on Education and the Municipal Code.

Art. 43.—Candidates for practice who hold a degree in law from a University or College in this Province shall produce with their notices a certificate from the principal or rector of such University or College to the effect that

they followed a course of lectures on law in the same, during at least three years, in conformity with the by-laws of the Bar; and such certificate shall further specify the number of public lectures at which they shall have attended on each subject mentioned in the foregoing programme, during each of the said three years. The last part of this certificate shall only be required for courses of lectures given after the 1st January, 1897.

Art. 44.—The examiners shall not consider a university degree in law valid for the purposes of admission to the Bar if they find that the candidate has not in fact followed the programme above.

II. Regulations Applicable to those who Intend to Become Notaries.

For the regulations applicable to the candidates for the Notarial Profession see Revised Statutes of Quebec, Arts. 3801-3833, and 53 Vict., c. 45 (Queb.).

TIME TABLE.

SESSION 1905-1906.

FIRST YEAR STUDENTS.

TUESDAY, 12TH SEPT., TO FRIDAY, 17TH NOVEMBER—9 WEEKS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.30	Obligations. Mr. A. Geoffrion	Procedure. Mr. Gordon Macdougall.	Obligations.	Procedure.	Obligations.
4.00	Roman Law. The Dean.	Rom.	Rom.	Rom.	Constitutional Law. The Dean.
5.00	Legal History. Prof McGoun.	Persons. Mr Gordon Macdougall.	Hist.	Persons.	Hist.

MONDAY, 20TH NOV., TO THURSDAY, 21ST DEC.—5 WEEKS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.30	Obligations.	Procedure.	Obligations.	Proced.	Obligations.
4.00	Roman.	Rom.	Rom.	Rom.	Const.
5.00	Real Rights. Prof. Marler	Persons.	Persons.	Persons.	Real Rights.

THURSDAY, 4TH JAN., TO FRIDAY, 2ND MARCH—9 WEEKS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.30	Obligations.		Obligations.		Obligations.
4.00	Roman.	Roman.	Rom.	Rom.	Rom.
5.00	Real Rights. Three Weeks.	Constitutional Law. The Dean.	Real Rights.	Const.	Real Rights.

MONDAY, 5TH MARCH, TO FRIDAY, 30TH MARCH—4 WEEKS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.30					
4.00	Roman.	Const.	Rom.	Const.	Rom
5.00	Criminal Law. Prof Mr. Justice Davidson.	Crim.	Crim.		Crim.

N.B.—A course of about ten lectures to the Second and Third Year Students will be given by Mr. Gordon W. Macdougall on Company Organization. The dates of these lectures will be announced later.

TIME TABLE.

SESSION 1905-1906.

SECOND AND THIRD YEAR STUDENTS.

TUESDAY, 12TH SEPT., TO FRIDAY, 17TH NOVEMBER—9 WEEKS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.30	Gifts and Substitutions. Prof. Mr. Justice Doherty.	Civ. Procedure. Mr. Ryan.	Gifts, &c.	Civ. Proced.	Gifts, &c.
4.00	Marriage Covenants, &c. Prof. Mr. Justice Fortin.	Marriage Covenants, &c.	Obligations. Advanced Course. The Dean.	Marriage Covenants, &c.	Marriage Covenants, &c.
5.00	Criminal Law. Prof. Mr. Justice Davidson.	Commercial Law. Prof. R. C. Smith	Crim.	Comm. Law.	Crim.

MONDAY, 20TH NOV., TO THURSDAY, 21ST DEC.—5 WEEKS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.30	Gifts and Substitutions.	Civ. Proced.	Gifts, &c.	Civ. Proced.	Gifts, &c.
4.00	Marriage Covenants, &c. Prof. Mr. Justice Fortin.	Marriage Covenants, &c.	Obligations.	Maariage Covenants, &c.	Marriage Covenants, &c.
5 00	Criminal.	Commercial Law.	Crim.	Comm. Law.	Crim.

THURSDAY, 4TH JAN., TO FRIDAY, 2ND MARCH—9 WEEKS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.30	Gifts & Substitutions, 5 wks. Civ. Proc. 4 wks.	Agency and Partnership. Prof. McGoun.	Gifts, &c. Civ. Proced.	Agency and Partnership	Gifts, &c. Civ. Proced.
4.00	Real Property Law. Prof. Marler. 6 weeks. N.B. This course will begin after the completion of Prof. Marler's course to the first year.	Obligations.	Real Property Law.	Obligations.	Real Property Law.
5.50	Private International Law. Prof. Lafleur.	Commercial Law. Prof. R. C. Smith	P. I. L.	Comm. Law.	P. I. L.

MONDAY, 5TH MARCH, TO FRIDAY, 30TH MARCH—4 WEEKS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8 30	Agency and Partnership.	Civ. Proced.	Agency and Partnership.	Civ. Proced.	Agency and Partnership.
4.00	R. P. L.		R. P. L.		R. P. L.
5.00	Commercial Law.	P. I. L.	Comm. Law.	P. I. L.	Comm. Law.

N.B.—A course of about ten lectures to the Second and Third Year Students will be given by Mr. Gordon W. Macdougall on Company Organization. The dates of these lectures will be announced later.

Faculty of Medicine.

I.

Foundation and Early History.

The Seventy-fourth Session of this Faculty will be opened on Wednesday, September 20th, 1905. The regular lectures in all subjects will begin on that date at the hours specified in the time-tables, and will be continued until May 18th, 1906. The annual examinations will begin one week later.

The Faculty of Medicine of McGill University is the direct outcome and continuance of a teaching body known as the Montreal Medical Institution which was organized as a medical school in the years 1823-24 by Drs. Wm. Robertson, Wm. Caldwell, A. F. Holmes, John Stephenson and H. P. Loedel. These men constituted the first medical staff of the Montreal General Hospital, itself established in 1819. The first session of the Montreal Medical Institution opened in November, 1824, with 25 students, and the lectures were given at the House of the Institution, No. 20 St. James Street, a building situate on the north side of St. James Street, on or near Place d'Armes.

In the year 1829, the Montreal Medical Institution became, by the formal act of the Governors of the Royal Institution for the Advancement of Learning, the Medical Faculty of McGill University. It was a condition of the bequest of the late Hon. James McGill that the college must be in operation within a certain number of years of his decease; failing this, the money and the Estate of Burnside on which the college was to be built, were to pass to the heirs-at-law, the Desrivières family. To enable this essential condition to be realized, the Montreal Medical Institution, then an active teaching body of established reputation, was "engrafted upon" the University of McGill College as its Medical Faculty. This event took place at

the first meeting of the Governors of "Burnside University of McGill College," held at Burnside House, June 29th, 1829, with the object of organizing the university. The first session of the McGill Medical Faculty took place in the winter of 1829-30, and the first university degree, a medical one, was conferred four years later in 1833.

There were no sessions held during the political troubles of 1836 to 1839, and it is owing to this fact that this is the Seventy-fourth instead of the Seventy-seventh Session of the Faculty, dating from its incorporation with the University in the year 1829.

In 1844 the number of students in the Medical Faculty was 50; in 1851, 64 with 15 graduates; in 1872-73, 154 with 35 graduates; in 1892-93, 315 with 46 graduates; in 1895-96, 419 with 90 graduates; in 1901-02, 440 students were registered.

After carrying on the work for some years on St. James Street, the Faculty removed to a house on St. George Street, near Craig Street, where they remained until 1845. From 1845 to 1851 they occupied the central part of the present Arts Building, which with the East Wing was the only part of the present Arts Building then standing. The remote situation of the University grounds was found to be a source of great inconvenience to both teachers and students, and the Faculty returned to the heart of the City, to No. 15 Coté Street, for the Session of 1851-52. This building was erected for the uses of the Faculty at the private expense of three of its members, who held the Faculty as their tenants until 1860, when the University authorities took over the Coté Street building, at the same time enlarging it at a cost of some $4,100.00, to meet the increased demands of the rapidly growing medical school. The Faculty remained on Coté Street until 1872 when the need of extension was again felt and the front block of the present medical building in the University Grounds was provided by the Governors.

In 1885 this building of 1872, which, as has been said, constitutes the front block of the present building, was again found to be inadequate and an addition was built at the rear, which at the time afforded all the facilities for

carrying out the great aim of the Faculty—that of making the teaching of the primary branches thoroughly practical.

Owing to the larger classes and the necessity for more laboratory teaching, the Lecture Rooms and Laboratories added in 1885 soon became insufficient in size and equipment to meet the requirements of the Faculty. The late Mr. John H. R. Molson with timely generosity came to the aid of the Faculty, and in 1893 purchased property adjoining the college grounds, and enabled the Faculty to erect new buildings and extensively alter and improve those already in use.

These wings were completed and officially opened by His Excellency, the Earl of Aberdeen, Visitor of the University, January 8th, 1895. They were erected as an extension of the old building, towards the northwest, partially facing Carlton Road, and convenient to the Royal Victoria Hospital. They connected the Pathological building, the private residence acquired by Mr. Molson in 1893, with the older buildings, and comprised a large lecture room, capable of accommodating 450 students, with adjoining preparation-rooms and new suites of laboratories for Pathology, Histology, Pharmacology and Sanitary Science. The laboratories, etc., in the older buildings were also greatly enlarged and improved.

On the ground floor the Library and Museum were enlarged. The original library of the building erected for the Faculty by the Governors in 1872 was furnished as a reading room for the use of the students, and the extensive reference library of the Faculty was thus for the first time made available for the use of students.

On this floor were also the Faculty room, the Registrar's office, the special museum for Obstetrics and Gynaecology, together with Professors' rooms, etc. The chemical laboratories were increased by including the laboratories formerly used by the department of Physiology.

In the basement were the janitor's apartments, cloak rooms with numerous lockers for use of students, the lavatory, etc., recently furnished with the most modern sanitary fittings.

In less than five years the extension of the practical laboratory work and the increase in the number of students and teachers made an enlargement of the buildings almost imperative. Before, however, the want of space and equipment was very seriously felt Lord Strathcona generously provided means to meet the requirements.

The New Buildings.

The new Medical Buildings were formerly opened by H.R.H. the Prince of Wales, September 19th, 1901, and are now complete and fully equipped. They are the gift of Lord Strathcona, who in the names of Lady Strathcona and the Hon. Mrs. Howard in 1898, contributed $100,000 towards extensions and alterations of the Medical Buildings. These buildings, the result of this munificent donation, have more than twice the capacity of the buildings occupied during the Session of 1900-1901.

The alterations and extensions may be described as consisting of three wings. First, a Laboratory wing. This wing occupies the north-east corner of the block of buildings and replaces what was formerly the Pathology wing. A second wing connects this with the front building on the east, and the third wing connects the Molson block with the original building on the west side.

The central wings extend east and west about 70 feet and form the central feature of what is now a symmetrical block of cut stone buildings. It will be seen that the stone and brick extensions, erected by the Faculty in 1885, have been entirely removed and replaced by these substantial structures. The alterations and extensions now completed form the larger portion of a scheme of complete reconstruction and extension which will ultimately lead to the replacing of the original stone building now remaining by a façade which will project into the University grounds to the south of the buildings and so convert the whole into a single symmetrical structure.

The new building is of four stories except in the front block, where the three original stories remain. The total length of the buildings, as will be seen by the plan, is 280 feet and the maximum width 145 feet. Its cubic capacity

is about 1,750,000 cubic feet, making it the largest of the buildings on the University campus.

The ground floor contains the lavatories, locker rooms, furnace rooms, vat rooms, rooms for stores and janitor's dwelling. In the laboratory wing there is a large recreation room for students, a students' laboratory for pharmacology and therapeutics, a research laboratory and a private room connected with this department.

The first floor, of which a plan has been inserted, contains to the right and left of the entrance, occupying the whole floor of the original building, a students' Library Reading-room, with accommodation for 200 readers, and the Pathological Museum. The students' reading room is connected with a fire-proof stack room which contains the valuable library of the Faculty. This stack room has a capacity of 40,000 volumes, the Library at present containing about 24,000. The Pathological museum on the opposite side of the hall connects with rooms beneath the seats of Lecture Room No. IV. which are used for special collections and for curator's rooms. Four small rooms adjoining are for the use of professors as private rooms. On the opposite side of the hallway in the central section of the building are the professors' common room, the Faculty room and the offices of the Registrar.

The most striking feature in the construction of the building is the large central hall or rotunda extending from the ground floor through the three stories to the roof, lighted by a skylight occupying the whole length of the middle section. This hall is 70 feet long by 45 feet wide, with galleries at each floor, connecting the various laboratories and lecture rooms with broad staircases at each end.

The northern section contains the Chemical Laboratory, 80 feet long by 45 feet wide, and the ceiling 20 feet high, surrounded with draft cupboards, and having benches for 150 to 180 students. Connected with this room is a commodious research laboratory for advanced work in medical chemistry, and a small professor's laboratory. On the opposite side of the hall is a large lecture room with a seating capacity of from 400 to 450, the museum preparation room, a small cloak room and preparation rooms connected with the lecture room.

The floor above in the two southern sections is devoted entirely to Anatomy. The dissecting room occupying the top of

Medical Buildings.—Laboratory of Chemistry.

Laboratory of Pharmacology.

the front building remains unchanged, and is connected on the west with a series of demonstrators' rooms, a private dissecting room and two rooms for the professor of this department. These rooms surround Lecture Room No. II., especially arranged for lectures in Anatomy. On the opposite side of the hall, occupying the same area as the lecture room and adjoining rooms is the Anatomical Museum. Intervening between this and the dissecting room on the east side are a small demonstration room, locker rooms and service rooms connected with the department of Anatomy.

In the northern section are the museum for Hygiene and the Hygiene laboratory. These rooms extend the whole distance across the east and west wings.

On the top floor are the departments of Physiology, Pathology, Bacteriology and Histology. The department of Pathology and Bacteriology has a laboratory of the same dimensions as the chemical laboratory, 80 x 45 feet, especially well lighted with three large roof lights in addition to the lights on both sides. Besides the tables, lockers, etc., provided for students in this department, there is a small demonstrating theatre and a series of small rooms for advanced work and for special purposes. These include a dark room, an incubator room, reference library and three private laboratories. On the opposite side of the hall, occupying a similar floor area, are the laboratories for Physiology, consisting of a students' laboratory which has been specially equipped this year with sets of apparatus for the practical study of the principles of physiology by the graphic method. Connecting the students' laboratory with lecture room No. I., to be used for Physiology chiefly, are a series of four rooms for advanced work and special research, service rooms and store rooms.

Occupying the entire northern end of this floor is the Histological laboratory with an adjoining room for private work. This laboratory is 105 feet long and affords space for the use of 150 microscopes at one time.

The laboratory wing is ventilated by a system of artificial ventilation, a powerful fan supplying each laboratory with warm fresh air, while extraction flues, to which extraction fans are attached, draw off the foul air from each room in this wing.

It will thus be seen that the new buildings of the Medical Faculty contain four lecture rooms, three of which have a seating capacity of 250, the fourth from 400 to 450. There are five museums, namely, for Pathology, Anatomy, Obstetrics and Gynæcology, Pharmacy and Hygiene. Other collections are being made and space has been arranged for their accommodation.

Extensive locker rooms have been arranged so that at a nominal cost each student may have a locker for himself. Lockers are also provided in connection with each of the large laboratories in which the students are required to keep their own material, instruments, etc.—as for instance, in connection with the dissecting room and the laboratories for Pathology and Bacteriology. In addition to the large reading room of the Library and the recreation room on the ground floor of the Laboratory wing, a small reading room is provided for the use of students and controlled by the Students' Medical Society, in which are kept the daily papers, periodicals, etc.

II.

Matriculation:

For particulars of the University Matriculation, see pp. 17 to 23.

Intending students are reminded that a University degree in Medicine does not always give a right to practise the profession of Medicine. It is necessary to conform with the Medical laws of the country or province in which it is proposed to begin practice. Each province in Canada at present has its special requirements for its license and in most provinces a special standard of general education is insisted upon before beginning the study of Medicine.

The requirements for those who intend to practice in any of the provinces of Canada, or in Great Britain, etc., are as follows:—

A. General Council of Medical Education and Enregistration of Great Britain.

A license from this body entitles the holder to practice in England, Ireland, Scotland and all colonies except the various provinces in Canada. The Matriculation Examination in Medicine of this University, as described on pp. 17 to 23, is accepted by the General

Medical Council. Graduates of this University desiring to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain. To obtain a license from the General Council it is necessary for all Canadian graduates to pass one of the examining boards of Great Britain in both primary and final subjects.

Detailed information may be obtained from one of the three registrars: Henry E. Allen, B.A., 299 Oxford Street, London; W. J. Robertson, 54 George St., Edinburgh; S. W. Wilson, 35 Dowson St., Dublin.

B. The Province of Quebec.

No University Matriculation Examination is accepted by the College of Physicians and Surgeons of this Province. Graduates in Arts of any British or Canadian University are however exempted from examination on presentation of their Diplomas.

Those who pass the Preliminary Examinations described below, or Graduates in Arts who register as students in the C. P. & S., Quebec, *on beginning their studies in Medicine*, obtain on graduating from McGill University a license to practice in Quebec without further examination in any professional subject.

Graduates who have registered with the General Council of Great Britain are at present admitted to practice without examination.

The requirements for the Matriculation Examination of the Province of Quebec for 1905 are:—

LATIN.—Cæsar's Commentaries, Bks. IV., V., VI.—Virgil's Aeneid, Bks. V., VI.—Cicero, *Pro Milone*. A sound knowledge of the Grammar of the Language.

ENGLISH.—For *English-speaking* candidates.—A critical knowledge of one of Shakespeare's plays, viz., Othello, ed. Deighton (The Macmillan Co.); English Grammar, Etymology and Analysis; Composition.

For *French-speaking* candidates.—Translation into French of passages from the first eight books of Washington Irving's "Life of Columbus," with questions on grammar, as in West's English Grammar for Beginners. Translation into English of extracts from Fénêlon's Télémaque.

FRENCH.—For *French-speaking* candidates.—A short essay on a given subject, with questions on grammar and analysis.

For *English-speaking* candidates.—Translation into English of passages from Fénélon's Télêmaque, with questions on Grammar. Translation into French of easy English extracts.

BELLES LETTRES AND RHETORIC.—Principles of the subject. History of the Literature of the age of Pericles in Greece, of Augustus in Rome, and of the 17th, 18th and 19th centuries in England and France.

HISTORY.—Outlines of the History of Greece and Rome, and particular knowledge of the History of Britain, France and Canada.

GEOGRAPHY.—A general view, with particular knowledge of Britain, France and North America.

ARITHMETIC.—Must include Vulgar and Decimal Fractions, Simple and Compound Proportion, Interest, Percentage and Square Root.

ALGEBRA.—Must include Fractions and Simultaneous Equations of the First Degree.

GEOMETRY.—Euclid, Bks. I., II., III., IV. and Book VI., or the portion of plane Geometry covered by those Books. Also the measurement of the lines, surfaces and volumes of regular geometrical figures.

CHEMISTRY.—Outlines of the subject as in P. Würtz, Troost, or Roscoe.

BOTANY.—Outlines as in Moyen, Provancher, Laflamme, or Spotton.

PHYSICS.—Outlines as in Peck-Ganot's Physics.

PHILOSOPHY.—Elements of Logic as in Jevon's Logic, and Philosophy as in Calderwood.

The examinations will be held in September, 1905, at Quebec, and in June, 1906, at Montreal. Applications to be made to Dr. J. A. Macdonald, No. 1 Belmont Street, Montreal; or to Dr. C. R. Paquin, of Quebec, who will furnish schedule giving text-books and percentage of marks required to pass in each subject.

Examination fee, twenty dollars. Should the candidate be unsuccessful, one-half of the fee will be returned on first failure.

Of the four years' study, *after* having passed the Matriculation Examination, three six months' sessions, at least, must be attended at a University College or Incorporated School of Medicine recognized by the "Provincial Medical Board." The first session must be attended during the year immediately succeeding the Matriculation Examination, and the final session must be in the fourth year.

Students wishing to register degrees in Arts must do so before the 15th of September of the year in which they begin the study of Medicine in order to obtain a license as soon as they graduate from the University.

C. The Province of Ontario.

Everyone desirous of being registered as a matriculated medical student in the register of the College of Physicians and Surgeons of this Province, except as hereinafter provided, must present to the Registrar the official certificate of having passed the "Departmental Pass Arts Matriculation Examination," and in addition Physics and Chemistry—whereupon he shall be entitled to be so registered upon the payment of twenty dollars and giving proof of his identity.

Graduates in Arts of any University in His Majesty's dominions, are not required to pass this examination, but may register their names with the Registrar of the College, upon giving satisfactory evidence of their qualifications, and upon paying the fee of twenty dollars.

A certificate from the Registrar of any chartered University conducting a full Arts course in Canada, that the holder thereof matriculated prior to his enrolment in such University, and passed the examination in Arts prescribed for students at the end of the first year, shall entitle such student to registration as a medical student under *The Ontario Medical Act.*

Every medical student, after matriculating, shall be registered in the manner prescribed by the Council, and this shall be held to be

the beginning of his medical studies, which shall date from that registration. To become a Registered Practitioner in this province four years' attendance at a recognized Medical School is required, and a fifth year to be spent in hospital or laboratory work must elapse before the final examination is granted.

Students are examined in all the subjects of a medical curriculum by the Examining Board of the C. P. & S. of this province at three examinations, a primary (II. year), an intermediate (IV. year), and a final (V. year).

Full details may be obtained on application to Hon. R. A. Pyne, M.D., Registrar, Cor. Bay and Richmond Sts., Toronto.

D. The Province of New Brunswick

The matriculation requirements of this province are:—

1. English Grammar, Composition, Literature and Rhetoric.
2. Arithmetic, including vulgar and decimal fractions, extraction of the square and cube root and mensuration.
3. Algebra, to the end of quadratic equations.
4. Geometry, first three books of Euclid.
5. Latin, first two books of Virgil's Æneid, or three books of Cæsar's Commentaries, translation and grammar.
6. Elementary Mechanics of solids and fluids, comprising the elements of statics, dynamics and hydrostatics.
7. Elementary Chemistry.
8. Canadian and British History, with questions in modern geography.
9. Translations and grammar of any two of the following languages: *Greek, French* and *German.*

In order to pass, a candidate must make an average of sixty per cent., with a minimum of forty per cent. in any one subject.

Dr. Stewart Skinner, of St. John, N.B., is the Registrar of the Council of Physicians and Surgeons of this province, and will furnish details on application.

To become registered as a practitioner in this province it is now necessary to pass examinations in all the Professional Branches.

E. Province of Nova Scotia.

The regulations of the Provincial Medical Board of this province for 1905-1906 are as follows:

Preliminary Examination and Registration.

1. No person shall begin or enter upon the study of medicine, for the purpose of qualifying himself to practice the same in this province, unless he first produces to the Registrar a certificate from the examiners appointed by the Board to show that he has passed the Preliminary Examination in the subjects prescribed by the Rules and Regulations of the Board, or evidence of having passed such equivalent examination as is accepted by the Board, and unless he causes his name to be forthwith entered in the Medical Students' Register as hereinafter specified (Rule 15).

2. No candidate shall be admitted to the Preliminary Examination unless at least fourteen days previous to such examination he has

given notice to the Registrar of the Board of his intention to present himself for such examination, and unless he has produced to the Registrar satisfactory evidence that he has completed his sixteenth year and has paid a fee of ten dollars ($10.00) to the Registrar.*

3. The Preliminary Examination † will embrace the following subjects, viz.:—

(1) ENGLISH. (a) *Language*: Grammar, Analysis, Parsing.
(b) *Rhetoric and Composition* including an essay on one of several set subjects from prescribed authors.
(c) *Literature*: History of English Literature; critical study of prescribed authors.‡

(2) ARITHMETIC. Complete.

(3) ALGEBRA. Simple Rules; Rules for the treatment of Indices; Surds; Extraction of Square and Cube Roots; Equations of the First Degree; Quadratic Equations of one unknown quantity.

(4) GEOMETRY. Euclid, Books I., II., III., with easy deductions.

(5) HISTORY AND GEOGRAPHY. British and Canadian History with questions in General Geography.

(6) LATIN. (a) *Translation* from prescribed books with questions arising our of these books, and translation of easy passages not taken from such book.‡
(b) *Grammar,*—As in Bennett's Grammar, or in Allen and Greenough's.
(c) *Composition,*—As in Collar and Daniel's First Latin Book with the first 18 exercises of Bradley's Arnold's Latin Prose Composition.
(c) *Composition.*

(7) One of the following:
GREEK. (a) *Translation* from prescribed books, with questions arising out of these books, and translation of easy passages not taken from such books.*
(b) *Grammar,* as in Elementary Grammars.
(c) *Composition,* as in White's First Greek Book, with the first 15 exercises of Fletcher and Nicholson's Greek Prose Composition.
FRENCH. *Translation* from prescribed books with *Grammar* Questions limited to the Accidence, and based upon the passages prescribed for translation.†
GERMAN. *Translation and Grammar,* as under French.||

4. Examinations take place twice a year, beginning on the first Thursday in May and the last Thursday in August.

On the same dates local examinations will be held, on application, at Sydney, C.B., Pictou, N.S., and at Yarmouth, N.S. Candidates taking local examinations are required to pay an aditional fee of $2.00.

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* This fee shall not be returned in case of failure.
† For copies of previous examination papers ($1.00 one entire set) apply to Registrar Provincial Medical Board.
‡ English authors for 1905.—Longfellow's Evangeline; Milton's L'Allegro, Il Pensoroso, Comus, Lycidas; Macaulay's Essay on Milton.
‡ Latin for 1905.—Cæsar's De Bello Gallico, Book V. and Virgil's Aeneid, Book I.
* Greek for 1905.—Xenophon's Anabasis, Book III.
† French for 1905.—Voltaire's Charles XII. Books I. II. and III
|| German for 1905.—Buckheim's German Reader, Part I.

5. Except where otherwise specified, the books prescribed by the Council of Public Instruction for the course leading to the grade B of High School Junior Leaving Examinations are recommended.

6. In order to pass, a candidate must make 50 per cent. of the marks in each subject.

7. If fifty per cent. is made in all subjects but one, and if in that subject the candidate shall have made at least 25 per cent. he may begin study, and attend for one medical year at any medical college recognized by the Board, and thereafter present himself for examination in that subject alone, without payment of any additional fee, except in cases of candidates taking local examinations, who will be required to pay the usual $2.00 fee for such examination.

8. A candidate failing in more than one subject, or failing to make 25 per cent. in any subject, may not begin professional study, but will be required to appear again for examination in all subjects. The fee for examination in such cases will be $5.00, (or $7.00 if a local examination be taken).

9. Certificates will be issued to successful candidates, showing the subjects in which they have passed, and the extent to which their knowledge of these subjects was tested.

10. Candidates who have passed the above examination will be admitted without further preliminary examination to all Canadian and American Colleges.

11. This examination also satisfies the requirements of the General Medical Council of Great Britain as to the preliminary examination which must be passed by persons wishing to register as medical students, provided the candidate shall have passed in all subjects at one examination.

EXEMPTIONS.

12. Graduates in Arts or Science of any recognized College or University are not required to submit to this examination.

13. The Medical Board will also recognize *pro tanto* the following examinations:

(1) The Matriculation or the Sessional Examinations of any chartered University or College approved by the Board, including McGill University.
(2) The Entrance Examination of the Nova Scotia Barristers' Society.
(3) The Examinations for Teachers' Licenses, Grade A or B of Nova Scotia, with 60 per cent. in required subjects.
(4) The Examinations for Junior or Senior High School Leaving Certificates of Nova Scotia, with 60 per cent. in required subjects.
(5) The Examinations for Honour, First or Second Class Ordinary Diplomas, as issued by the Prince of Wales College, P.E.I., with 60 per cent, in required subjects.
(6) The Examinations for First or Second Class Teachers' Licenses of Prince Edward Island, with 60 per cent. in required subjects.
(7) The Examinations for First Class, or Grammar School Licenses of New Brunswick, with 60 per cent. in required subjects.
(8) The Examinations for corresponding Licenses or Leaving Examination Certificates issued by the Education departments of the other provinces of Canada, with 60 per cent. in required subjects.
(9) The Matriculation or Preliminary Examinations of any Medical Licensing Board or Council authorized by law in His Majesty's Dominions, with 50 per cent. in each subject.

14. After passing his preliminary examination, the medical student may then enter upon his professional course at any University, Medical School or College approved by the Board.

REGISTRATION.

15. *Immediately* after entering upon his course every person engaged in the study of medicine for the purpose of qualifying himself to practise in the Province of Nova Scotia shall forthwith cause to be entered in the register of the Board kept by the Registrar and called the Medical Students' Register, his name, age, place of residence, date and particulars of his preliminary examination, and place and date of his commencement of the study of Medicine.

16. The fee for such registration is ten dollars ($10.00), except that candidates who already have paid $10.00 for the Matriculation Examination are not required to pay any additional fee.

17. Every student must spend a period of at least four years in actual professional study subsequent to his having passed the preliminary or Matriculation Examination and being registered as a medical student; and the prescribed period of study shall include four collegiate sessions of at least eight months' duration each year.

18. Professional examinations will be held twice during each year, one beginning in the *month of April*, the other in *September*.

19. Notwithstanding the Regulations (Chap. III.—Professional Examinations) during the year 1902 and until further notice, any candidate for the License of the Board who produces to the Registrar satisfactory certificates of having passed in the subjects of first and second Professional Examinations at a regular Medical College or University recognized by the Board, will be exempted from further examinations in such subjects, and shall be required to pass only the subjects of the third Professional Examination (Chap. III., Sec. 16-22).

The fee for the third Professional Examination under the above conditions will be thirty-five dollars ($35.00), which will entitle successful candidates to the benefits of Chap. III., Sec. 22, equally and to the same extent as is provided in said section for candidates who have taken all the examinations and paid the usual fees.

20. Any person who produces to the Registrar satisfactory evidence to show that as a student in Arts or Science connected with any recognized University or College, he has attended a satisfactory course in Physics, Chemistry or Practical Chemistry, previous to his registration as a medical student, such course or courses will be accepted by the Board as exempting from further attendance in such subject or subjects and a certificate of having as such Arts or Science Student previous to his registration or as a regular medical student subsequent to such registration, passed an examination in either or all of these subjects equivalent to that required by the Board, will be accepted as exempting from further examination in any or all of said subjects.

21. With regard to hospital attendance the requirement has been reduced from twenty-four to eighteen months, and six months' attendance on the out-patient department of a general hospital or on the practice of a recognized dispensary will be accepted as an equivalent portion of such eighteen months.

F. Prince Edward Island.

The requirements of this province are the same as for New Brunswick, and there is reciprocity with both New Brunswick and Nova Scotia.

The subjects of the examination are as follows:—

1. ENGLISH.—Grammar, Composition, Literature and Rhetoric.
2. ARITHMETIC.—Including vulgar and decimal fractions and extraction of the square and cube root and mensuration.
3. ALGEBRA.—To the end of quadratic equations.
4. GEOMETRY.—First three books of Euclid.
5. LATIN.—First two books of Virgil's Æneid, or three books of Cæsar's Commentaries, translation and grammar.
6. ELEMENTARY MECHANICS of solids and fluids, comprising the elements of statics, dynamics, and hydrostatics, and elementary chemistry.
7. CANADIAN AND BRITISH HISTORY, with questions in modern geography.
8. TRANSLATION and grammar in any two of the following subjects: *Greek, French, German.*

Fifty per cent. of the marks in every subject shall be required for a pass, and 75 per cent. in all subjects for honours.

G. Province of Manitoba.

The matriculation examination of McGill University is accepted by this province. The province holds an examination once each year. The following are the fixed requirements:—(1) LATIN, (2) MATHEMATICS, (3) ENGLISH, (4) HISTORY, (5) BOTANY, (6) PHYSICS. Subjects 1, 2, 3, 4 are the same as required for the Arts Matriculation of Manitoba University, Parts I. and II., and the same standard shall be required to enable the candidate to pass.

Details of this examination can be obtained from the Registrar of the University of Manitoba.

H. British Columbia.

The College of Physicians and Surgeons of this province does not hold an examination in general education but accepts the examinations recognized by the various boards and universities of the Dominion.

This province examines all candidates for a license in the professional branches, both primary and final. Dr. C. J. Fagan, Victoria, B.C., is the Registrar and Secretary of the Council.

I. North-West Territories.

The College of Physicians and Surgeons of the North-West Territories has no standard of matriculation. It accepts that of any Canadian Board or University.

According to the Amended Medical Ordinances (1900), a licentiate of any province in Canada may register and practice in the North-West Territories on payment of a special fee and without examination.

J. D. Lafferty, M.D., Calgary, Alberta, is the Registrar.

J. Newfoundland.

The Newfoundland Medical Board has a standard of preliminary education equivalent to that required by the General Council of Medical Education of Great Britain.

The requirements for 1902-1903 were as follows:

Compulsory.

English Language.—Including grammar, composition and literature.
Arithmetic.—Including vulgar and decimal fractions, and the extraction of the square root.
Algebra.—To the end of simple equations.
Geometry.—Euclid, books i, ii, iii, with easy questions on the subject matter of the same.
Latin.—Including grammar, translation from specified authors, and translation of easy passages not taken from such authors.*
Elementary Mechanics of Solids and Fluids.†

*Optional.**

History of British America.—With questions in modern geography.
History of England.—With questions on modern geography.
French.—Translation and Grammar.
German.—Translation and grammar.
Greek.—Translation and grammar.‡
Magnetism and Electricity.
Chemistry.

The Board will not, in future, accept any certificate of passing the matriculation or preliminary examination in general education, unless the whole of the subjects included in the matriculation or preliminary examination required by the Council for registration of students of medicine have been passed at the same time; provided, however, that a certificate of having passed a University examination required for graduation in Arts, or a senior or a higher local University examination, or an Intermediate grade examination of the Council of Higher Education of Newfoundland, or of the Grade I. license for teachers of Newfoundland, wherein the specified subjects of general education are included, may be recognized for the purpose of registration.

In order to pass a candidate must make fifty per cent. of marks in each subject.

Certificates will be issued to successful candidates showing the subjects in which they passed, and the extent to which their knowledge of these subjects was tested.

Candidates who have passed the above examination will be admitted without further preliminary examination at all Canadian and American Colleges.

Text-Books.—Except when otherwise specified the books prescribed by the Council of Higher Education are recommended.

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* Latin for 1905.—Cæsar's Gallic War, Bk. I., or Virgil's Æneid, Bk. I.

† As in Blackie's Elements of Dynamics, or an equivalent.

* In communicating with the Registrar, students will please state the optional subjects chosen.

‡ Greek for 1905.—Xenophon, Anabasis, Bk. I., or Hellenica, Bk. I.

Laboratory of Normal Histology.

Medical Building—Laboratory of Hygiene.

III.

Fees.

See pages 35-37.

IV.

Qualifications for the Degree.*

1st. No one will be admitted to the Degree of Doctor of Medicine and Master of Surgery who shall not have attended Lectures for a period of four nine months' sessions in this University, or some other University, College or School of Medicine, approved of by this University.

2nd. Students of other Universities so approved and admitted on production of certificate to a like standing in this University shall be required to pass all Examinations in Primary and Final Subjects in the same manner as students of this University.

3rd. Graduates in Arts who have taken two full courses in General Chemistry, including Laboratory work, two courses in Biology, including the subjects of Botany, Embryology, Elementary Physiology and dissection of one or more types of Vertebrata, may, at the discretion of the Faculty, be admitted as second-year students, such courses being accepted as equivalent to the first year in Medicine. Students so entering will, however, not be allowed to present themselves for examination in Anatomy until they produce certificates of dissection for two sessions.

4th. Candidates for Final Examination shall furnish Testimonials of attendance on the following branches of Medical Education; provided, however, that testimonials

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* *It shall be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty of Medicine, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a student's course, to the conditions here laid down.*

equivalent to, though not precisely the same as those above stated, may be presented and accepted:—

Anatomy.	Of which Two full Courses will be required.
Practical Anatomy.	
Physiology.	
Practical Physiology.	
Chemistry.	
Pharmacology and Therapeutics.	
Principles and Practice of Surgery.	
Obstetrics and Diseases of infants.	
Gynæcology.	
Theory and Practice of Medicine.	
Clinical Medicine.	
Clinical Surgery.	
Medical Jurisprudence.	Of which One full Course will be required.
General Pathology.	
Hygiene and Public Health.	
Practical Chemistry.	
Ophthalmology and Otology.	
Biology.	Of which One Course will be required.
Medical Physics.	
Histology.	
Applied Medical Chemistry.	
Pathological Anatomy.	
Bacteriology.	
Mental Diseases.	
Pediatrics.	
Medical and Surgical Anatomy.	

Students enregistered in the Province of Quebec are required to attend and pass examinations in Laryngology and Minor Surgery.

He must also produce certificates of having assisted at six autopsies, of having dispensed medicine for a period of three months, and of having assisted at twenty vaccinations.

5th. Courses of less length than the above will only be received for the time over which they have extended.

5th. No one will be permitted to become a candidate for the degree who shall not have attended at least one full Session of the University.

7th. The candidates must give proof of having attended during at least twenty-four months the practice of the Montreal General Hospital or the Royal Victoria Hospital or of some other hospital of not fewer than 100 beds, approved by this University. Undergraduates are required to attend only the practice of the Out-Patient departments of the Hospitals during their second year.

8th. He must give proof of having acted as clinical clerk for six months in Medicine and six months in Surgery in the wards of a general hospital recognized by the Faculty, of having reported at least 10 medical and 10 surgical cases.

9th. He must also give proof by ticket of having attended for at least nine months the practice of the Montreal Maternity or other lying-in-hospital approved of by the University, and of having acted as assistant at least six cases.

10th. Every candidate for the degree must, on or before the 15th day of May, present to the Registrar of the Medical Faculty testimonials of his qualifications, entitling him to an examination, and must at the same time deliver to the Registrar of the Faculty an affirmation or affidavit that he has attained the age of twenty-one years.

11th. The trials to be undergone by the candidate shall be in the subjects mentioned in Section 4.

12th. The following oath of affirmation will be exacted from the candidate before receiving his degree:

Sponsio Academica.

In Facultate Medicinæ Universitatis.

Ego, A——— B———, Doctoratus in Arte Medica titulo jam donandus, sancto coram Deo cordium scrutatore, spondeo:—me in omnibus grati animi officiis erga hanc Universitatem ad extremum vitæ halitum perserveraturum; tum porro artem medicam caute, caste, et probe exercitaturum; et quoad in me est, omnia ad ægrotorum corporum salutem conducentia cum fide procuraturum; quæ denique inter medendum, visa vel audita silere conveniat, non sine gravi causa vulgaturum. Ita praesens mihi spondenti adsit Numen.

13th. The fee for the Degree of Doctor of Medicine and Master of Surgery shall be thirty dollars, to be paid by the successful candidate to the University Bursar immediately after examination.

V.

Examinations.

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the Session.

The Pass and Honour examinations at the close of each Session are arranged as follows :—

First Year.

Examinations in Biology, Histology, Physiology, Anatomy, Medical Physics, Inorganic Chemistry, Practical Chemistry and Elementary Bacteriology.

Students who have taken one or more University courses in Biology or Chemistry before entering may be exempted from attendance and examination. Students exempted in these First Year subjects are allowed only a pass standing, but may present themselves for examination if they desire to attain an honour standing. Students exempted from First Year Chemistry must take Second Year Chemistry, in their First Year.

Second Year.

Examinations in Anatomy, Organic Chemistry, Applied Medical Chemistry, Physiology, Practical Physiology, Pharmacology and Histology.

Third Year.

Examinations in Pharmacology and Therapeutics, Medical Jurisprudence, Public Health and Preventive Medicine, Bacteriology, General Pathology, Clinical Microscopy, Obstetrics, Medicine, and Surgery.

Fourth Year.

Examinations in Medicine, Surgery, Obstetrics, Gynæcology, Ophthalmology, Mental Diseases, Clinical Medicine, Clinical Surgery, Clinical Obstetrics, Clinical Gynæcology, Clinical Ophthalmology and Practical Pathology.

By means of the above arrangement a certain definite amount of work must be accomplished by the student in each year, and an equitable division is made between the Primary and Final branches.

A minimum of 50 per cent. in each subject is required to pass and 75 per cent. for honours.

Candidates who fail at the regular examinations in not more than two subjects of the First, Second or Third Years, may take the supplemental examinations before the beginning of the following session. These examinations will be held during the week preceding the regular opening of the Session.

Students who fail in both Physiology and Anatomy at the end of the Second Year are required to repeat their year.

Failure in more than two subjects at the regular examinations excludes the candidate from advancement and necessitates his repeating the work in the subjects in which he has failed.

No student may proceed to the work of the final year who has not passed the examinations in all subjects included in the curriculum of the First and Second Years.

Candidates who fail to pass in a subject in which practical work is required may, at the discretion of the examiner, be required to repeat the course and furnish a certificate of attendance thereon.

Students who fail in one subject only of the final year may, at the discretion of the Faculty, be allowed a supplemental examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional hospital attendance or laboratory work before presenting himself for examination.

Students who fail at the examinations held at Christmas or Easter may, at the discretion of the examiners, be granted supplemental examinations at a period not less than three months after the regular examination.

Applications for supplemental examinations must be in the hands of the Registrar at least three days before the date set for the beginning of the examination and they must be accompanied by a fee of $5.00 for each subject.

VI.

Fellowships, Medals and Prizes.

1. Fellowships.—The Faculty has begun to establish Teaching and Research Fellowships in connection with the various laboratories.

These fellowships are of a value of five hundred dollars per annum, are open only to graduates in Medicine, and are tenable for three years.

Two are now established in connection with the department of Pathology—a Governor's Fellowship endowed by one or two of the Governors of the University, and a Faculty Fellowship established by the Faculty. Other Fellowships will be announced as they are established.

2. MEDALS.—The "**Holmes Gold Medal,**" founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, Esq., M.D., LL.D., late Dean of the Faculty of Medicine. It is awarded to the student of the graduating class who receives the highest aggregate number of marks in the different branches comprised in the Medical Curriculum.

The student who gains the Holmes' Medal has the option of exchanging it for a Bronze Medal and the money equivalent of the Gold Medal.

"**The Sutherland Gold Medal,**" founded in 1878 by the late Mrs. Sutherland in memory of her late husband, William Sutherland, M. D., formerly Professor of Chemistry in this Faculty. It is awarded for the best examination in General and Medical Chemistry, together with creditable examination in the Primary branches. The examination is held at the end of the Third Year.

3. PRIZES.—**The Final Prize**—A Prize in books (or a Microscope of equivalent value) awarded for the best examination, written and oral, in the Final branches. The Holmes' medallist is not permitted to compete for this prize.

The Third Year Prize.—A Prize in books awarded for the best examination, written and oral, in the branches of the Third Year.

The Second Year Prize.—A Prize in books for the best examination in all the branches of the Second Year in course.

The First Year Prize.—A Prize in books for the best examination in all the branches of the First Year in course.

The "**Clemesha Prize in Clinical Therapeutics,** founded in 1889 by John W. Clemesha, M.D., of Port Hope, Ont. It is awarded to the student making the highest marks in a special clinical examination.

VII.

Text Books.

Anatomy.—Gray, Morris, Quain (Eng. Ed.), Gerrish and Cunningham.
Practical Anatomy.—Cunningham's Practical Anatomy, Ellis Demonstrations, Holden's Dissector and Landmarks.
Physics.—Carhart and Chute; Medical Physics, Daniel; Ref. Medical Electricity; Balfour Stewart.
Inorganic Chemistry.—Holleman, Richter 5th ed., Remsen.
Organic Chemistry.—Remsen.
Pharmacology and Therapeutics.—Cushney, Hare, Wood, Sollmann, Stevens.
Physiology.—Foster and Shore's Physiology for Beginners, Mills' Text-Book of Animal Physiology, Foster's Physiology, G. N. Stewart's Physiology, Mills' Class Laboratory Exercises.
General Pathology.—Sidney Martin, Delafield & Prudden, Ziegler.
Special Pathology.—Stengel, American Text-book.
Bacteriology.—Muir & Ritchie, McFarland, Macé (French).
Laboratory Handbooks.—Mallory & Wright, H. W. Cattell (Post-mortem Pathology); Anderson's laboratory guide; Eyre (Bacteriological Technique).
Histology.—Klein's Elements, Schafer's Essentials of Histology, Stohr, Szymonowicz.
Surgery.—Walsham, Treves, American Text-Book of Surgery, Da Costa, Rose & Carliss, Warren & Gould.
Practice of Medicine.—Osler, Tyson, Wood and Fitz, J. M. Anders.
Clinical Medicine.—Musser's Medical Diagnosis, Simon, Klemperer, Rainey and Hutchison, Vierodt's Medical Diagnosis.
Medical Jurisprudence.—Reese, Guy and Ferrier, Mann, Chapman's Manual of Medical Jurisprudence.
Mental Diseases.—Insanity and its Treatment, Blandford, 4th Ed.
Nervous and Mental Diseases.—Church and Peterson, 2nd ed. Atlas of the Nervous System and its Diseases, Jacob.
Obstetrics.—Jewett, Hirst, American Text-Book and Evans' Pocket Text-Book.
Diseases of Children.—Holt, Rotch, Dawson, Williams.
Gynaecology.—Hart and Barbour, Dudley on Diseases of Women, Montgomery.
Hygiene.—Davies, Wilson, Rohe, Whitelegge, Harrington, Abbott's Transmissible Diseases.
Biology, Botany.—Gray's Text-Book of Histology and Physiology; Zoology, Shipley and MacBride's Introduction to Zoology.*
Opthalmology.—De Schweinitz, Nettleship and Swanzy.
Otology.—Pritchard, Dalby.
Rhinology and Laryngology.—Watson Williams; Posey and Wright (Diseases of Nose and Throat, Vol. II.); Diseases of Nose and Throat by Charles H. Knight, M.D.
Operative Surgery.—Jacobson, Treves, Kocher.
Dermatology.—Malcolm Morris, Hyde, Crocker, Stellwagon.
Medical Dictionary.—Gould, Dunglison, Hoblyn.

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* Each student will be required to pay $2.50 in order to cover the cost of a class book, dissecting instruments and other necessaries which are supplied to him and become his property.

TIME TABLES FOR THE SESSION 1904-1905.

Time Tables for the Session 1905-1906 will be issued to students with their Lecture Room tickets at the time of registration.

TIME TABLE OF FIRST YEAR.

LECTURES.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.	Lecture Theatre.
Anatomy	9	9	9	9	9	.....	Autumn Term.
Physiology	4	4	.....	4	3	.....	Winter & Spring Terms No. 1.
Medical Physics	2	.....	2	2	.....	.....	Autumn Term No. III.
Chemistry	....	2	2	2	.....	.....	Winter & Spring Terms No. III.
Biology	.....	2	.....	.....	2	.....	Autumn Term Redpath Museum.
Embryology	9	.....	9	.....	9	.....	Spring Term Zoolog. Lab.
Bacteriology	.....	9	.....	.....	.....	.....	Spring Term No. I.
LABORATORY WORK.							
Practical Anatomy	9-1 10-1	9-1 10-1	9-1 10-1	9-1 10-1	9-1 10-1	9-1 9-1	Winter Term. Autumn "
*Prac. Physiology	2-4	.....	3-5	.....	.....	.....	Win. & Sp. Terms.
*Prac. Histology	.....	.....	4-6	.....	4-6	9-12	Win. & Sp. Terms.
Prac. Embryology	10-11	.....	10-11	.....	10-11	.....	Spring Term Zoolog. Lab.
*Prac. Chemistry	10-12	10-12	10-12	10-12	10-12	9-11	Winter Term.
*Prac. Biology	.....	3-6	.....	.....	3-6	.....	Biological Laboratory, Arts Bld'g. Autumn Term.
*Prac. Bacteriology	3-5	.....	.....	....	3-5	.....	Spring Term.

* Class taken in divisions.

TIME TABLE OF SECOND YEAR.

LECTURES.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.	Lecture Theatre.
Anatomy	9	9	9	9	9	.....	Winter Term No. II.
Physiology	2	.....	2	.....	2	.....	No. I.
Chemistry — Organic	3	.....	3	.....	3	.....	Autumn Term No. III.
Chemistry — Applied Medical	.....	.....	.....	....	3	.....	Winter & Spring No. III.
Pharmacology	3	.....	3	.....	.....	.....	Winter & Spring No. II.
Pharmacy	4	.....	4	.....	.....	.....	Autumn No. II.
Pathology	4	.....	4	.....	.....	.....	Spring No. IV.
LABORATORY WORK.							
Practical Anatomy	9-1 10-1	9-1 10-1	9-1 10-1	9-1 10-1	9-1 10-1	9-1 10-1	Autumn Term. Winter "
†Applied Medical Chemistry	9-12	9-12	9-12	9-12	9-12	9-12	Spring Term.
†Prac. Physiology	.....	2-5	.....	2-5	.....	.....	Throughout Session.
†Prac. Histology	.....	4-6	....	4-6	.....	9-12	Autumn Term.
†Prac. Pathology	10-12	.....	.....	10-12	.....	.....	Spring Term.
†Demonstrations and Laboratory Work, Pharmacology	.....	2-4	.....	2-4	.....	.....	Throughout Session.

† Class taken in divisions.

NOTE.—Students of the second year are required to attend Medical and Surgical Demonstrations at M. G. H. and R. V. H.—Spring term in groups. Certificates required for graduation.

NOTE.—Students taking B. Sc., M. D. course will have Wednesday afternoons and Saturday mornings free for advanced Science Work.

TIME TABLE OF THIRD YEAR.

LECTURES.	Mon	Tues.	Wed.	Thur.	Fri.	Sat.	Lecture Theatre.
Obstetrics	9	.....	9	.....	.....	.....	Win. and Sp. Term No. IV.
Medicine	.....	10	§11–12	10	.....	.....	Session No. III
Surgery	10	.....	§12–1	.....	10	.....	Fall and Win. No. III
Jurisprudence	11	.....	.....	11	.....	.....	Fall&W. Term No. III
Therapeutics	.....	9	.....	9	.....	.....	Session No. III
General Pathology and Bacteriology	.....	.....	10	.....	9	.....	Winter & Sp. No. IV.
	.....	.....	9	.....	9	.....	Autumn Term No. III
Hygiene	.....	.....	4	.....	11	.....	Winter Term No. III
	10	.....	.....	.....	10	.....	Spring Term No. III
Morbid Anatomy	.....	.....	.....	.....	.....	9–11	
Clinical Medicine	1 R.V.H	1 p.m. M.G.H.	.....	1 p.m. R.V.H.	1 M.G.H	.....	
Clinical Surgery	1 M.G.H	2 R.V.H.	.....	1 M.G.H.	2 p.m. R.V.H	.....	
Practical Pathology	4–6	4–6	.....	4–6	4–6	.....	Winter Term, Path. Lab.
‡Bacteriology	4–6	4–6	.....	4–6	4–6	.....	Autumn Term, Path. Lab.
‡Clinical Microscopy	4–6	4–6	.....	4–6	4–6	.....	Spring Term, Path. Lab.
‡Practical Hygiene	4–6	4–6	.....	4–6	4–6	.....	Win. & Sp'ng Terms Hyg. Lab.
‡†Operative Surgery	5–6	5–6	5–6	5–6	5–6	5–6	Dissecting Room, Spring Term.

§ Double Clinics, Alternate weeks M.G.H. and R.V.H. † Optional. ‡ Classes taken in groups.

TIME TABLE OF FOURTH YEAR.

LECTURES.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.	Lecture Theatre.
Obstetrics	9	.....	9	.....	9	.....	Fall term No. IV
"	.....	.....	.....	.....	9	.....	Win. & Spring No. III
Gynæcology	.....	9	.....	9	.....	.....	Session No. IV
Mental Diseases	.....	.....	10	.....	5	.....	Fall Term No. III
Medicine	.....	10	‡11–12	10	.....	.....	Fall & Win. No. IV
Surgery	10	.....	‡12–1	.....	10	.....	Session No. IV
Med. and Sur. Pathology	9	.....	9	.....	.....	.....	Winter & Spring,
Ophthalmology	.....	.....	5	.....	.....	.....	No. IV
Medical and Surgical Anatomy	5	.....	.....	.....	.....	.....	Autumn Term No. IV
Children's Diseases	.....	.....	.....	.....	5	.....	Spring Term No. IV
*Out Patients' Clinics	12-1	12-1	12-1	12-1	12-1	12-1	M. G.H. R. V. H.
Clinical Medicine	 1	1	....	 1	1	....	R. V. H. M. G. H.
Clinical Surgery	 2	1	....	 2	1	....	M. G. H. R. V. H.
Gynæcological Operations	....	 11	4	....	....	....	M. G. H. R. V. H.
*Clinical Ophthalmology	3	 3	3	....	 3	....	M. G. H. R. V. H.
†Gynæcological Clinics	 3	4	....	4 3	....	....	M. G. H. R. V. H.
Morbid Anatomy	.....	.....	.....	.....	.....	9–11	
Clinical Obstetrics	.....	.....	.....	.....	.....	1–3	Maternity Hospital.
*Dermatological Clinic	.....	.....	2	.....	.....	11	M. G. H.
Genito-Urinary Clinic	.....	.....	.....	.....	.....	3	R. V. H.
Pediatric Clinic	.....	.....	.....	4	.....	.....	M. G. H.
*Laryngology	 3	 3	3 3	.....	3 3	....	M. G. H. R. V. H.

* In groups of eight or ten. † In groups of four.. ‡ Alternate weeks M. G. H. and R. V. H.

IX.

COURSES OF LECTURES.

The Corporation of the University on the recommendation of the Faculty of Medicine, in 1894, consented to the extension of the courses of lectures in medicine over a period of about nine months instead of six.

By this means, (1) The students of the primary years have a greater opportunity of becoming acquainted, by laboratory work, with those branches of study which form the scientific basis of their profession, and (2) the final students will be enabled to utilize to better advantage the abundance of clinical material provided in the two Hospitals.

By this arrangement the actual number of didactic lectures per session was decreased, but a corresponding increase was made in the amount of tutorial work and individual teaching in the laboratories for Chemistry, Physiology, Anatomy, Pathology, and Bacteriology, as well as giving more time for clinical work in the Royal Victoria and Montreal General Hospitals, and a greater number of ward classes were also made possible during the session.

The Faculty expects, by thus increasing the time that the different professors, lecturers and demonstrators devote to each student, to accomplish two very important ends; first, to do away with the injurious effects which result from attempting to condense the teaching of medicine and surgery into four or even five sessions of six months; second, to give each student a sounder and more thoroughly practical knowledge of his profession than could be obtained by attending during even five sessions of six months each.

Anatomy.

PROFESSOR:—FRANCIS J. SHEPHERD.
ASSISTANT PROFESSOR:—J. G. McCARTHY.
LECTURER:—J. A. SPRINGLE.

DEMONSTRATORS:—J. A. HENDERSON.
J. J. ROSS.
A. E. ORR.

ASSISTANT DEMONSTRATORS:—R. A. WESTLEY.
H. M. CHURCH.
A. T. BAZIN.
A. MACKENZIE FORBES.
C. K. P. HENRY.
A. R. PENNOYER.

Anatomy is taught in the most practical manner possible, and its relation to Medicine and Surgery fully considered. The lectures are illustrated by the fresh subject, moist and dry preparations, sections, models, plates and drawings on the blackboard. Frequent examinations are also held.

A course of practical demonstrations in Medical, Surgical and Topographical Anatomy is also given in the final year of the course.

The department of *Practical Anatomy* is under the direct control and personal supervision of the Professor of Anatomy, assisted by his staff of Demonstrators.

The methods of teaching are similar to those of the best European schools, and students are thoroughly grounded in this branch.

Every student must be examined *at least* three times on each part dissected, and no certificate is given unless the examinations are satisfactory.

Special Demonstrations on the brain, thorax, abdomen, bones, etc, are frequently given. Prizes are awarded at the end of the Session for the best examination on the fresh subject.

The Dissecting Room is open from 9 a.m. to 6 p.m. In consequence of the excellent Anatomy Act of the Province of Quebec, abundance of material can always be obtained.

Chemistry.

PROFESSOR:—R. F. RUTTAN.
LECTURER:—J. R. ROEBUCK.
LABORATORY ASSISTANT:—O. R. MABEE.

The Department of Medical Chemistry is situated on the ground floor of the laboratory wing of the new building. The Students' Laboratory, 80 by 45 feet, with ceiling 22 feet high, has recently been completely equipped, and has benches and sets of apparatus for 180 students. Adjoining this Laboratory is a smaller one for post-graduate teaching in medical chemistry and for advanced work, and a balance room in which is a reference library for the use of the staff and graduates employed in special work.

The lecture room for chemistry on the opposite side of the hall has four rooms connected with it, in which lecture experiments are prepared, and which are used for storing apparatus, preparations, etc., required for the lectures on chemistry and physics.

The course in medical chemistry is a graded one.

First Year:—During the autumn term of the first year a short course of lectures in medical physics is given. These lectures are fully illustrated by experiments. The students, taken in groups, are required to study by experiments in the laboratory the more important phenomena of heat, sound, light and electricity. Lectures and demonstrations on the principles of chemistry are given three times per week during the winter and spring terms. Examinations are held at Christmas on medical physics, and in June on the theory of chemistry.

Laboratory instruction in practical chemistry is given during the winter term, six hours per week. This course includes the experimental study of the laws of chemical action, the properties of typical elements and compounds, and a short course in qualitative analysis. Special attention is directed to instructing the students in keeping an accurate record of his observations and conclusions. These notes are examined daily and criticised.

Second Year: — A course of lectures and demonstrations, three per week, is given on Organic Chemistry in the autumn term, and an examination is held at Christmas. During the

Laboratory of Physiology.

winter and spring terms lectures and demonstrations are given on the application of chemistry to clinical diagnosis, sanitation and medical jurisprudence.

Laboratory work in clinical and applied medical chemistry is required during the spring term. An examination in applied medical chemistry, practical and theoretical, is held in June.

Students will find it greatly to their advantage to have a knowledge of elementary chemistry before entering upon the study of medicine. Graduates in arts of recognized universities, on presenting certificates of having taken courses in theoretical and practical chemistry and physics, and of having passed examinations in the same, may be exempted from the chemistry of the first year.

Physiology.

THE JOSEPH MORLEY DRAKE PROFESSOR:—WESLEY MILLS.
ASSISTANT PROFESSOR:—W. S. MORROW.
LECTURER:—A. A. ROBERTSON.
DEMONSTRATOR:—A. H. GORDON.

The purpose of this course is to make students thoroughly acquainted, as far as time permits, with modern Physiology; its methods, its deductions and the basis on which the latter rest. Accordingly a full course of lectures is given, in which the physical, the chemical, and other aspects of the subject receive attention.

In addition to the use of diagrams, plates, models, etc., every department of the subject is illustrated experimentally. The laboratory work for students has been greatly increased and during the season of 1901-1902 apparatus to the value of over three thousand dollars was added to the students' laboratory.

Laboratory work for Senior Students:—

(1.) During a part of the Session there will be a course on Physiological Chemistry, in which the student will, under direction, investigate food stuffs, digestive action, blood, and the more important secretions and excretions, including urine. All the apparatus and material for this course will be provided.

(2.) The remainder of the Session will be devoted to the performance of experiments (other than chemical) to illustrate important physiological principles.

Laboratory work for the Junior Students:—

This will be somewhat similar to the course for Senior students, but simpler and anatomico-physiological rather than chemical; like the work for Second Year Students its main object will be the illustration of principles.

The new Physiological Laboratory has been fitted up so as to permit of eighty students engaging in work at one time. The fittings and equipments of each bench are of the latest designs and are well adapted to their purpose. The apparatus was especially made by the best American and European makers and thoroughly tested before being accepted.

Each pair of students is supplied with all the apparatus necessary to carry out the work of verifying a large number of the leading principles of physiology and registering the results by the graphic method.

Provision is also made for a course in Physiological Chemistry, covering foodstuffs, digestion, the animal fluids, etc.

The experience of the past session has fully justified expectations in regard to the Laboratory and the courses prescribed.

For the purposes of group and class demonstration, other and more complicated apparatus is available, and will be added to as necessity requires.

Additional rooms are provided, seven in number, for a departmental library and professor's office, for preparation apartments, and workshop, and for physiological research.

Histology.

PROFESSOR:—GEO. WILKINS.
LECTURER:—WALTER M. FISK.
DEMONSTRATORS:— H. B. CUSHING. W. A. DORION.

The teaching of Histology and Microscopical Methods is spread over two years. During both years practical instruction will be given upon the preparation and mounting of specimens. Students will also be required to make drawings of the specimens prepared by them.

For the First Year students, work will commence immediately after the Christmas holidays and continue until the end of the session. The course will consist of laboratory work and

demonstrations, with occasional lectures upon elementary and systematic histology up to and including the digestive system. At the end of the session a practical examination will be held on the work done.

During the Second Year a course of demonstrations and laboratory work together with lectures will be given on more advanced histology and an examination held at Christmas.

Biology.

D. P. Penhallow:—Professor of Botany.
E. W. MacBride:—Professor of Zoology.

The course in elementary Biology is designed to prepare for special study in medical subjects. Under the supervision of the professors of Botany and Zoology it will be given during the autumn term, the course in Zoology to consist of sixteen lectures and laboratory periods to be given during the first eight weeks and the course in Botany of eight lectures and laboratory periods to be given during the last four weeks.

A.—Animal Biology.

In this course the fundamental properties of protoplasm will be discussed; the principles of the formation of tissues; the formation of organs; an outline of vertebrate structure and function, as exemplified by Paramœcium and Vorticella, Hydra, Lumbricus and the Dog-fish.

Two lectures and one laboratory period each week.

A course in Embryology, especially designed for medical students, is given, by the Professor of Zoology, in the Spring term.

B.—Plant Biology.

The course in Plant Biology will deal chiefly with the general properties of cytoplasm; the structure and nature of the plant cell; movement; nutrition; respiration; fixation of carbon; division of labor and origin of organs; evolution of plant forms. These principles will be illustrated in their more simple forms by a Myxomycete, Pleurococcus, Spirogyra and Oedogonium, Fucus, Saccharomyces and Pteris.

Two lectures and one demonstration each week, beginning on Monday, November 20th, 1905.

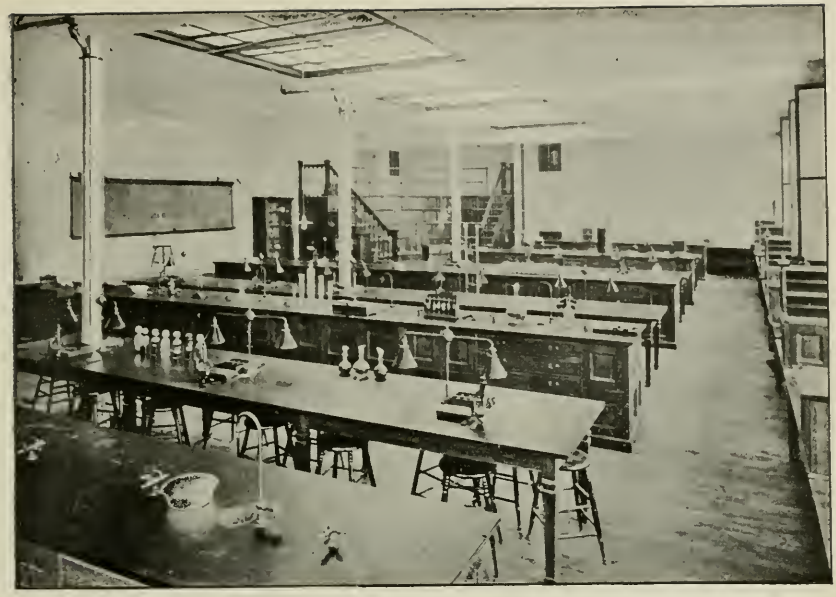
Pathology and Bacteriology.

PROFESSOR:—J. G. ADAMI.
ASSISTANT PROFESSOR:—A. G. NICHOLLS.
LECTURER IN PATHOLOGY:—J. MCCRAE.
DEMONSTRATOR IN BACTERIOLOGY.—H. B. YATES.
DEMONSTRATOR IN NEUROPATHOLOGY:—D. A. SHIRRES.
DEMONSTRATOR IN SURGICAL PATHOLOGY:—E. J. SEMPLE.
ASSISTANT DEMONSTRATOR IN BACTERIOLOGY:—J. A. WILLIAMS.

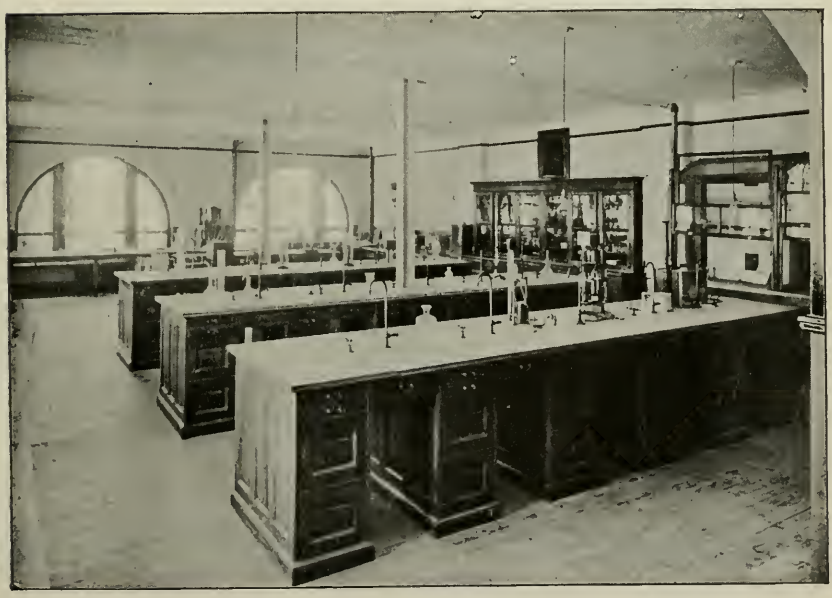
The teaching, both didactic and practical, in the subjects of Pathology and Bacteriology, is given by the Professor of Pathology and his staff.

For the use of this Department an extensive series of laboratories has been set aside and is now in active use on the top floor of the new wing of the Faculty, and inasmuch as the old Pathological Laboratory was established and equipped by the late J. H. R. Molson, these new laboratories retain the name of the J. H. R. Molson Laboratories.

They consist of a large and admirably lighted class room for general classes capable of accommodating with ease 70 students at a time, so arranged that each student in the bacteriological and pathological courses does the microscopical work at one table and immediately behind him is his locker and bench for the preparation of material, preparation of culture media, etc. In this room at one end there is also a small demonstration theatre or quarter circle capable of accommodating the whole class at work in the laboratory at one time and used for demonstration purposes, and at the other end a service department from which are given out materials. Further arrangements are installed for lantern demonstrations for the whole class. The large laboratory is so arranged that the students can perform their practical work with the least amount of moving about the room, the students working in pairs and having all the necessary apparatus, reagents, etc., immediately by them. There are in addition a laboratory for advanced work and for special courses, with a set of six smaller research rooms for the use of members of the staff and those engaged in research, a dark room and an incubator room. The pathological library of the Professor is placed in the reading room of the department and is at the disposal, for consultation, of those working in the laboratory.



Laboratory of Pathology and Bacteriology.



In the Laboratory of Hygiene.

The following courses constitute the teaching in these subjects:—

1. A course of General Pathology for the students of the Third Year; optional for those of the Fourth Year. Lectures are delivered twice weekly throughout the winter and spring terms.

2. A course of Elementary Bacteriology for students of the First Year—eight lectures with demonstrations being given during the spring term.

3. A course of lectures upon Bacteriology in Relation to Disease, for students of the Third Year, given three times weekly during the autumn term.

4. A course of Demonstrations in the Performance of Autopsies to students of the Third Year. The demonstrations are held weekly from October until Christmas.

5. Demonstrations upon the Autopsies of the week to students of the two Final years. These are given during the Session by Drs. Adami and Nicholls at the Royal Victoria Hospital, and Drs. MacTaggart and McCrae at the Montreal General Hospital.

Practical Courses.

6. The performance of Autopsies. Each student is required to take an active part in at least six autopsies. These are conducted at the General and the Royal Victoria Hospitals. In addition to the actual performance of the *sectio cadaveris*, the students are expected to attend practical instruction given with each autopsy in the method of preparation and microscopical examination of removed tissues, so as to become proficient in the methods of preparation, staining and mounting.

7. A practical course in the Bacteriology of Infectious Diseases, for students of the Third Year. This course is held twice weekly during the autumn term.

8. A practical course in Morbid Histology to students of the Third Year. This is held twice weekly during the winter term. Students are instructed in the staining and mounting of specimens, and as a rule six sections are distributed at each meeting of the class so that each student obtains a large representative series of morbid tissues, altogether about 120 in number.

9. A course of demonstrations upon Morbid Anatomy, museum specimens, once weekly during the autumn and winter terms to students of the Fourth Year.

In addition to the above the staff of the department gives instruction to the more advanced students who desire to take any special work in the laboratories; this more especially during the vacations.

For this purpose a special set of rooms has been set apart for Post-Graduate and Advanced Instruction. Accommodation has been provided for classes of twelve to fifteen. In connection with these laboratories for advanced work there is a departmental reference library, rooms for photography, etc.

Optional courses are conducted by the demonstrators of Pathology and the demonstrator of Neuro-pathology during the Session. Classes in Clinical Pathology and Microscopy are given at the General and Royal Victoria Hospitals under the direction of the professors and lecturers in Clinical Medicine.

In connection with this Department, two Research and Teaching Fellowships have been established, one by the Faculty of Medicine and one by the Governors.

Pharmacology and Therapeutics.

PROFESSOR:—A. D. BLACKADER.

LECTURERS:—J. W. SCANE. R. A. KERRY.

The lectures on this subject are graded in the following manner:—For students of the Second Year, there is (1) a three months' course on Practical Materia Medica and Pharmacy, with demonstrations and exercises in the laboratory. Prescription writing and the various modes of administering drugs are explained and illustrated; (2) a six months' course on the physiological action of drugs, with practical demonstration of the action of the more important ones. In the Third Year attention is directed to the Therapeutic Application of all the more important drugs and remedial measures, including Electricity, Hydrotherapy and Climatotherapy.

The Eddie Morrice Laboratory, comprising pharmacological and chemical research rooms, has, through the liberality of Mr. Morrice, been fully equipped with all necessary apparatus for demonstrating in a practical way the action of the more important drugs.

Medical Jurisprudence.

PROFESSOR:—GEO. WILKINS.
LECTURER—MEDICO-LEGAL PATHOLOGY:—D. D. MACTAGGART.

This course is treated of in its medical as well as medico-legal aspects. Special attention is devoted to the subject of blood stains, the chemical, microscopical and spectroscopic tests for which are fully described and shown to the class. The various spectra of blood in its different conditions are shown by the micro-spectroscope, so well adapted for showing the reactions with exceedingly minute quantities of suspected material. Recent researches in the diagnosis of human from animal blood are alluded to. In addition to the other subjects usually included in a course of this kind, Toxicology is taken up. The modes of action of poisons, general evidence of poisoning and classification of poisons are first treated of, after which the more common poisons are described, with reference to symptoms, post-mortem appearance and chemical tests. The post-mortem appearances are illustrated by plates, and the tests are shown to the class.

Hygiene.

STRATHCONA PROFESSOR:—T. A. STARKEY.
DEMONSTRATOR:—F. B. JONES.

Owing to the endowment of the Department of Hygiene by the Right Honorable Lord Strathcona, a teaching Laboratory has been established in connection with the Chair of Hygiene. The compulsory course in Hygiene consists of two lectures per week, supplemented by demonstrations dealing with the practical application of Hygienic Principles as well as the Elementary Chemistry and Bacteriology of water, air, soil, foods and beverages. In addition, excursions are made periodically to inspect some point of Hygienic interest. The course also includes the hygiene of air, soil, water and climate; health resorts, personal hygiene, bathing, exercise, clothing, hygiene of special life periods; food and diet; food supply; food diseases and adulterations; hygiene of dwellings; heating, lighting and ventilation, sanitary fittings; municipal sanitation; water supply; sewage; drainage; refuse disposal; burial of the dead; hygiene of occupation, offensive trades;

hygiene of hospitals, prisons, etc.; preventive medicine; methods of dealing with infectious diseases and epidemics; communicable diseases of animals; organization of health boards; sanitary law and administration in relation to the medical practitioner; vital statistics in relation to the healthfulness of communities.

An optional practical course more advanced than the one above referred to, will be open to students wishing to go into higher detail.

Special course of instruction are given to graduates wishing to qualify themselves in sanitary work, or to obtain the diploma in Public Health. "See Post-Graduate Practical Courses."

The Laboratory has been equipped with the apparatus needed in giving practical illustration in Hygiene either as demonstrations to large classes of students, or as practical work for smaller groups.

The museum and laboratory are equipped with working models and apparatus illustrative of application of hygienic principles.

The arrangement is as follows:—

The Hygiene Department occupies the entire north end of the building on the mezzanine floor, having the floor space corresponding with that of the Department of Histology. The main laboratory is 60 x 50 feet, and it is well equipped with apparatus for demonstrations and practical work in Hygiene. Adjoining it is a balance room and private laboratory, 13 x 15 feet. Opening off the main laboratory is the museum, about 45 x 30 feet, which is well stored with full sized specimens and working models illustrative of all branches of Public Health.

Medicine.

PROFESSOR:—JAMES STEWART.

ASSISTANT PROFESSORS:—F. G. FINLEY. H. A. LAFLEUR. C. F. MARTIN.

While the lectures on this subject are mainly devoted to Special Pathology and Therapeutics, no opportunity is lost of illustrating and explaining the general laws of disease. With

the exception of certain affections seldom or never observed in this country all the important internal diseases of the body, except those peculiar to women and children, are discussed, and their Pathological Anatomy illustrated by the large collection of morbid preparations in the University Museum, and by fresh specimens contributed by the Professor of Pathology.

The College possesses an extensive series of plates and models illustrative of the histological and anatomical appearances of disease, and the wards of the General and Royal Victoria Hospitals afford the lecturers ample opportunities to refer to living examples of very many of the maladies described, and to demonstrate the results of treatment.

Clinical Medicine.

PROFESSOR:—JAMES STEWART.
ASSOCIATE PROFESSORS:—F. G. FINLEY AND H. A. LAFLEUR.
ASSISTANT PROFESSOR:—C. F. MARTIN.

LECTURERS:—
- G. GORDON CAMPBELL.
- W. F. HAMILTON.
- S. RIDLEY MACKENZIE.
- A. A. BRUERE.

ASSISTANT DEMONSTRATORS:—
- B. D. GILLIES.
- C. A. PETERS.
- F. M. FRY.
- H. B. CUSHING.
- A. H. GORDON.

The instruction in Clinical Medicine is conducted in the theatres, wards, out-patient rooms and laboratories of the Royal Victoria and Montreal General Hospitals.

The courses include:—

I. The reporting of cases by every member of the Graduating Class, a certain number of cases being assigned to each student.

II. Bedside instruction for members of the Graduating Class.

III. Clinics weekly in each hospital.

IV. Tutorial instruction for the Junior Classes, in the wards and out-patient rooms of both hospitals.

V. Instruction in Clinical Chemistry and Bacteriology.

Surgery.

PROFESSOR:—THOMAS G. RODDICK.
ASSISTANT PROFESSOR:—J. M. ELDER.
LECTURER:—A. E. GARROW.

This course consists of the principles and practice of Surgery and Surgical Pathology, illustrated by a large collection of preparations from the Museum, as well as by specimens obtained from cases under observation at the hospitals. The greater part of the course, however, is devoted to the Practice of Surgery, in which attention is constantly drawn to cases which have been observed by the class during the session. The various surgical appliances are exhibited, and their uses and application explained. Surgical Anatomy and Operative Surgery form special departments of this course.

Clinical Surgery.

PROFESSOR:—JAMES BELL.
ASSOCIATE PROFESSOR:—GEORGE E. ARMSTRONG.

LECTURERS:—A. E. GARROW. J. A. HUTCHISON.

DEMONSTRATORS:—KENNETH CAMERON. W. L. BARLOW. C. B. KEENAN. E. W. ARCHIBALD.

ASSISTANT DEMONSTRATORS:—E. M. VON EBERTS. W. H. P. HILL.

The teaching in Clinical Surgery is conducted at the Montreal General and Royal Victoria Hospitals.

I. In the amphitheatre of each of these hospitals, demonstrations are given and operations are performed before the Senior and Junior Classes on alternate days.

II. Small ward classes of about ten men in each are taken through the wards by the surgeon in attendance, and instruction given at the bedside concerning the nature and management of surgical cases, in each hospital, at least once per week. Similar classes are also taken into the wards daily by the Surgical Assistants for instruction in diagnosis and reporting

III. Beds are assigned to students in rotation, and each student is required to carefully study and report cases and to assist in the surgical dressing of the same. Certificates of case reporting are given, and are essential to graduation.

IV. In the Out-patient department students have an exceptionally good opportunity to study a great variety of injuries, to witness operations in minor surgery, to come into personal contact with patients and to take part in the application of a variety of surgical dressings and appliances.

Obstetrics and Diseases of Infants.

PROFESSOR:—J. CHALMERS CAMERON.
LECTURER:—D. J. EVANS.

DEMONSTRATORS:— { JAMES BARCLAY. / H. R. D. GRAY.

ASSISTANT DEMONSTRATORS:— { J. W. DUNCAN. / J. G. BROWNE.

This course will embrace: (1) Lectures on the principles and practice of the obstetric art, illustrated by diagrams. fresh and preserved specimens, the artificial pelvis, complete sets of models illustrating the deformities of the pelvis, wax preparations, bronze mechanical pelvis, etc. (2) Bedside instruction in the Montreal Maternity, including external palpation, pelvimetry, the management and after-treatment of cases. (3) A complete course on obstetric operations with the Tarnier-Budin phantom. (4) The diseases of infancy. (5) A course of individual clinical instruction at the Montreal Maternity.

The course is carefully graded and instruction is given separately to students of the Third and Fourth Years.

...lar attention is given to clinical instruction, and a clinical examination similar to that held in Medicine and Surgery, now forms an important part of the Final examination.

A short course of lectures on diseases of Infancy is given supplemented by clinical demonstration and ward work. The demonstrators give special demonstrations from time to time and take the students in groups for the purpose of examination and review.

Gynæcology.

PROFESSOR:—WM. GARDNER.

LECTURERS:—F. A. L. LOCKHART AND W. W. CHIPMAN.

DEMONSTRATOR:—J. D. CAMERON.

ASSISTANT DEMONSTRATOR:—DAVID PATRICK.

The didactic course is graded, and consists of from forty to forty-five lectures given at intervals alternating with the lectures on Obstetrics and extending throughout the session. The anatomy and physiology of the organs and parts concerned are first discussed. Then the various methods of examination are fully described, the necessary instruments exhibited, and their uses explained.

The diseases peculiar to women are considered as fully as time permits, somewhat in the following order:—Disorders of Menstruation; Leucorrhoea; Diseases of the External Genital Organs; Inflammations, Lacerations and Displacements of the Uterus; Pelvic Cellulitis and Peritonitis and Inflammation of the Ovaries and Fallopian Tubes; Benign and Malignant growths of the Uterus; Tumours of the Ovary; Diseases of the Bladder and Urethra. The lectures are illustrated as fully as possible by drawings and morbid specimens.

Clinical teaching, including out-patient and bed-side instruction is given at both the Royal Victoria and Montreal General Hospitals by Professor Gardner and Doctors Lockhart, Chipman and Cameron. A large amount of Clinical material is thus available for practical instruction in this department of medicine. Numerous operations are done before the class and made the subject of remarks. In addition to the ward-patients, each hospital conducts a large out-patient Gynaecological Clinic, to which advanced students are admitted in rotation, and instructed in digital and bi-manual examination and in the use of instruments for diagnosis.

Particular attention is thus given to Clinical instruction, and a Clinical examination in Gynaecology similar to that held in Medicine and Surgery, now forms part of the Final examination.

Ophthalmology and Otology.

PROFESSOR:—F. BULLER.

LECTURERS:— { J. J. GARDNER. J. W. STIRLING. W. G. M. BYERS.

This will include a course of from twenty-five to thirty didactic lectures on Ophthalmology and Otology, delivered at the college buildings. In these will be discussed especially the methodical, clinical examination of the organs of sight and hearing, the classification and pathology of the diseases affecting them, and the general principles underlying the diagnosis and treatment of the affections of the eye and ear.

Systematic clinical instruction will be given at the bi-weekly clinics in the out-patient departments of the General and Royal Victoria Hospitals where students have unexcelled opportunities for thoroughly grounding themselves in the work of these branches. The operative work of eye and ear surgery is fully open to undergraduates on days set apart for the purpose, and special courses for instruction in refractive work and the use of the ophthalmoscope can also be arranged for times convenient to the teachers and students.

Laryngology and Rhinology.

PROFESSOR:—H. S. BIRKETT.
DEMONSTRATOR:—H. D. HAMILTON.

ASSISTANT DEMONSTRATORS:— { G. K. GRIMMER. W. H. JAMIESON.

This course will consist of practical lessons in the use of the Laryngoscope and Rhinoscope. The instruction will be carried on with small classes, so that individual attention may be insured. A limited number of clinical lectures bearing upon interesting cases attending the clinic will be delivered during the session. These lectures will be, however, of an eminently practical nature.

Mental Diseases.

PROFESSOR:—T. J. W. BURGESS.

This course will comprise a series of lectures at the University on Insanity in its various forms, from a medical as well as from a medico-legal standpoint. The various types of mental diseases will be illustrated by cases in the Verdun Hospital, where clinical instruction will be given to visiting groups of Senior students at intervals throughout the session.

Diseases of Infants and Children.

PROFESSOR:—J. C. CAMERON.
LECTURER:—A. D. BLACKADER.

Although this subject does not constitute a special chair in the University, systematic instruction is given (a) in connection with the chair of Obstetrics and Diseases of Infants by Prof. Cameron; (*b*) by a course of lectures, clinical and didactic, by Prof. Blackader; and (*c*) through the Children's Clinic at the Montreal General Hospital, at the Infants' Home, and at the Montreal Foundling and Baby Hospital.

Clinical Mic oscopy.

This course, which is given during the Spring Term of the Third Year, is essentially a practical one and is in charge of Professor C. F. Martin, assisted by Drs. W. F. Hamilton, G. G. Campbell, Ridley MacKenzie, C. F. Wylde and F. B. Jones. It is a laboratory course forming part of the Third Year instruction in medicine and is held in the Pathological Laboratory of the Medical Building. The classes are held twice weekly, each demonstration lasting two hours.

Students are given instruction in the microscopic appearances of normal and abnormal sediments in the urine, methods of examination of the blood in the fresh and dried state of preparation; minute appearances of the sputum, stomach contents and fæces, as well as that of the various animal parasites of the alimentary tract.

In addition to this the student is given an opportunity of examining the various bacteria of importance in clinical medicine and surgery.

Various specimens of special interest which are found in the hospitals from time to time, are examined as occasion arises at the demonstrations.

X.

DOUBLE COURSES.

B.A. and M.D.

By special arrangement with the Faculty of Arts, it is now possible for students to obtain the double degree of B.A., and M.D., C.M., and also B.Sc. and M.D., after only six years of study.

Course Leading to B.A. and M.D.

It has been decided to allow the Primary subjects (Anatomy, Physiology and Chemistry) in medicine to count as subjects of the Third and Fourth Years in Arts. It follows then that at the end of four years' study a student may obtain his B.A. degree and have two years of his medical course completed.

The remaining two years of study are devoted to the Third and Fourth Year subjects in Medicine.

The special provisions for Medical Students in the Arts course are as follows:—

During the first two years in the Faculty of Arts students taking the double course will complete their studies in Biology, Physics and Elementary Chemistry.

I.—*In the Third Year*:—

(*a*) Anatomy and Practical Anatomy, Histology and Physiology, of First Year Medicine.

(b) Two of the courses which are not placed under the heading "Science" in the Arts curriculum. The time tables of the two Faculties allow the following to be chosen:—

(1) French or Moral Philosophy or Economics.

(2) Political Science.

(*c*) Either one or two hours weekly in English Com position.*

II.—*In the Fourth Year*:—

(*a*) Anatomy and Practical Anatomy, Histology, Physiology, Chemistry, of Second Year Medicine.

(*b*) One hour weekly in English Composition, if only one has been taken in the Third Year.

B. Sc. (Arts) and M.D.

The Faculties of Arts and Medicine have organized a course of six years' study leading to the double degrees of Bachelor of Science (Arts) and Doctor of Medicine.

The requirements of this course are as follows:—

Matriculation. — The student who proceeds to the Double Course must pass a matriculation examination consisting of English, History, Mathematics (Part 1), French, German, and Latin.

First Year.—During the First Year the course will include English, French, German, Mathematics and Physics, of the first year of the B.A. Course.

Second Year. — During this year English of the second year B.A. Course, French, German, Chemistry and Elementary Biology. The course in Chemistry consists of three lectures per week and two laboratory periods of three hours. The Biology will consist up to Christmas of the Zoology of the Second Year in the Faculty of Arts, which is the same as that required of First Year students in Medicine with the morphology of the frog in addition. After Christmas (spring term Arts), the student may proceed either to a continued course in Animal Biology comprising the osteology of the rabbit and the histology of its tissues, or he may proceed with the Botany of the Second Year in the Faculty of Arts. This course in Botany is introductory to the more specialized work of the Third Year, and will be represented by a number of types, including the flowering plants and the determination of species. Two lectures and two laboratory periods each week during spring term.

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*Note.—Students are recommended to distribute their English composition over two years.

In the event of a student selecting Animal Biology after Christmas, he must have taken before Christmas the course in Biology as laid down for medical students, *i.e.*, both Zoology and Botany. If the student select Botany after Christmas, he must have taken Zoology of the second year in the B.Sc. Course, *i.e.*, the anatomy of the frog, in addition to that required of medical students.

Third Year.—The student will enter in the Third Year of his course upon the study of medical subjects proper, having a good theoretical and practical knowledge of Inorganic Chemistry, and will have had a more thorough training in Biology than at present can be given the regular students in medicine. The time, therefore, during this year, which in the regular medical curriculum is devoted to Chemistry, Practical Chemistry and Biology, will be available for Science subjects of the B.Sc Course; and a student will have the option of four different branches of science, which shall in each case consist of a full regular course, together with one-half an honour course, the honour course to be given between September and Christmas.

(I) Zoology.—Two lectures during the week, and two laboratory periods of about two hours. This course takes up the study of parasite forms, of comparative osteology and embryology. In addition to this is a half Honour Course, which will consist of a critical study of some such work as Verworn's General Physiology, or Spencer's General Biology.

(II) Physics.—Two lectures and one period of three hours laboratory work per week. The student may proceed either with Heat and Light, as in the third year Physics Course in Arts, or with Electricity and Magnetism constituting the fourth year Physics in Arts; or he may take a portion of each of these courses, and in addition would do advanced work constituting a half Honour course from September to Christmas.

(III) Chemistry.—Two lectures per week and two laboratory periods—the time before Christmas to be devoted to Physical Chemistry, and during the second term to Organic Chemistry, including organic preparations, with advanced

work constituting a half Honour course from September to Christmas.

(IV) Botany.—This course is designed to give a comprehensive knowledge of plant stucture and relationships. The principles of development will be illustrated by type studies, which may also serve as the basis for more special work in Bacteriology, Physiology, Ecology or Paleobotany. It comprises:—(*a*) Microscopy, including determination of amplifications, micrometry, drawings, section cutting and preparation of microscopic objects. This work presupposes familiarity with the optics of the microscope as given in Physics "3" of the second year Arts; (*b*) critical studies of the Thalophyta and Pteridophyta, as illustrated by selected types. Two lectures and two laboratory periods each week throughout the session.

Students will also be required to take one-half of the honour work of the Fourth Year Arts in experimental plant Physiology, as based upon the following works:—

Pfeffer, Plant Physiology; Macdougall, Experimental Plant Physiology; Darwin and Acton, Practical Physiology of Plants. One lecture and four laboratory hours per week during autumn term.

It will be permitted also, if a student so desires it, to substitute a half honour course in Chemistry, Physics, or Geology, for the half honour course in Botany.

In the fourth year of this six years' course, Wednesday afternoon and Saturday morning of each week will be available for laboratory work in connection with still more specialized study in the subject which has been selected during the third year; or a student may proceed with a branch of science other than the one selected for his third year work, provided he is sufficiently well grounded to enable him to do the special work which may be assigned to him.

Thus the first two years of the six years' course are devoted entirely to the Faculty of Arts, the student taking the option of Biology instead of Mathematics for the second year.

In the Third and Fourth Years work will be given partially in the Faculty of Arts and partially in the Faculty of

Medicine. In the Third Year the studies in the two Faculties will be nearly equal; in the Fourth Year they will be almost entirely in the Medical Faculty.

The Fifth and Sixth Years will be occupied by the regular curriculum of the Third and Fourth Years in Medicine.

To secure privileges connected with either of the double courses described above, certificates of registration in the Medical Faculty must be presented at the beginning of each year to the Dean of the Faculty of Arts; and at the end of each session in the first two years certificates of attendance on lectures and of passing the corresponding examinations must also be presented. At the end of the Third and Fourth Years certificates must be presented to show that the full curriculum of the Medical Faculty for the year has been completed.

A certificate of Licentiate in Arts will be given along with the professional degree in Medicine to those who, previous to entrance upon their professional studies proper, have completed two years in the Faculty of Arts, and have duly passed the prescribed examinations therein.

The Faculty of Medicine strongly recommends students to take an Arts course before beginning Medicine, whenever possible, devoting special attention to Chemistry, Biology, Physics, and German. Should a student have but one year at his disposal he is advised to take Chemistry, Biology and Physics of the Faculty of Arts as a preliminary training for Medicine.

XI.

GRADUATE AND ADVANCED COURSES.

The Faculty of Medicine in 1896 established post-graduate and special courses in connection with the Montreal General and Royal Victoria Hospitals and the various laboratories in the University buildings. These courses will be continued in 1905-1906.

There will be two distinct sets of courses, one a short practical and clinical course for medical men in general practice who desire to keep in touch with recent advances in Medicine, Surgery and Pathology, and who wish special clinical experience in Gynæcology, Ophthalmology, Laryngology, etc.

This course will last four weeks, beginning on the first of June.

A special detailed programme will be prepared, and will be sent on application.

The other courses will be for those who have just completed their regular course in Medicine, and desire special Laboratory or Clinical teaching before beginning practice.

Arrangements have also been made to accommodate a limited number of such graduates who desire advanced and research work.

Commodious laboratories for advanced work have been equipped in connection with the Pathological and Clinical departments of both the Royal Victoria and Montreal General Hospitals, and in connection with the general laboratories for Pathology, Pharmacology, Physiology and Chemistry, recently altered and extended, in the new buildings of the Faculty.

Recent graduates of recognized universities desiring to qualify for examinations by advanced laboratory courses, or who wish to engage in special research, may enter at any time by giving notice, stating the courses desired and the time at their disposal.

All the regular clinics and demonstrations of both hospitals will be open to such students on the same conditions as undergraduates in medicine of this University.

These laboratories have been open for graduates since May 1st, 1896.

Further details regarding courses, fees, etc., may be obtained on application to the Registrar.

The Graduate Course of 1905.

The tenth regular course of instruction for General Practitioners will be conducted as usual by the Faculty of Medicine.

A prospectus giving full particulars concerning the course will be issued, and may be had on application to the Registrar of the Faculty.

Diploma Course in Public Health.

The Faculty of Medicine in the session 1899-1900 instituted a gradate course in Public Health and Sanitary Science. This course will be given each year and the diplomas conferred at the annual convocation.

Candidates undertaking this course must have possessed a degree in Medicine or other qualification of practice for at least twelve months before he is competent to receive the diploma. The following are the courses requisite:—

1. Course of lectures in Public Health (to be omitted in the case of candidates who have attended such a course before graduation).

2. A three months' course in Bacteriology, special attention being directed to the pathogenic organisms and parasites—such course to be omitted on presentation of proof that it has previously been taken.

3. A six months' course of practical study of outdoor sanitary work under a medical officer of health (to be omitted in the case of medical health officers holding appointments prior to the establishment of this diploma course).

4. Three months' attendance and clinical instruction at a hospital for infectious diseases (unless such course has already been taken prior to graduation).

5. Three months' instruction in sanitary Chemistry and Physics, with practical work in a chemical laboratory.

Examination for Diploma shall cover the following subjects:—

1. Examination of clinical cases at an infectious hospital.

2. The drawing up of outlines for annual and other reports of officers of health.

3. Report upon the sanitary condition of some actual locality.

4. The chemical analysis of liquids and gases and of specimens of food.

5. Demonstration of the consideration and use of meteorological, hygienic and sanitary apparatus.

6. Microscopical examination of specimens submitted.

7. Description of specimens of human and other diseased tissues.

8. Practical examination in the employment of the usual bacteriological methods.

9. The inspection of carcasses of animals to be used for food.

The above examination shall be written and oral and practical, and shall extend over a period of four days.

The following is a list of subjects included in the curriculum of study:—

(*a*) *Sanitary Chemistry*:—Examination of air, gases, water, the action of water on metals; milk, food and beverages; detection of poisons in articles of dress and of decoration; the chemistry of sewage.

(*b*) *Sanitary Physics*:—Principles of statics, pneumatics, hydraulics, light, light and photometry, heat and thermometry, the principles of hygrometry, (only in their application to hygiene).

(*c*) *Sanitary Legislation*:—Statutes and by-laws relating to public health; the powers of public sanitary authorities.

(*d*) *Bacteriology and Parasitology*:—Modes of propagation of disease and transmission of disease between man and man, and man and animals; bacteriological analysis in relation to public health matters; natural history of microbes and animal parasites.

(*e*) *Vital Statistics*:—Calculation and tabulation of returns of births, marriages, deaths and diseases.

(*f*) *Meteorology and Climatology*:—Including the geographical and topographical distribution of disease.

(*g*) *Preventive Medicine and Practical Sanitation.*

The fee for the Course and Diploma shall be $50.00.

XII.

CLINICAL INSTRUCTION.

During the Session of 1905-6, three Medical, three Surgical, two Gynæcological and two Ophthalmological clinics will be held weekly in both the Montreal General and Royal Victoria Hospitals.

In addition, tutorial instruction will be given in these different departments in the ward, out-patient rooms and laboratories. Special weekly clinics will be given in the Montreal General Hospital on Dermatology and Laryngology and in the Royal Victoria Hospital on diseases of the Genito-Urinary system, Laryngology and Neurology.

Clinical Clerks in the medical and surgical wards of both Hospitals are appointed every three months, and each one dur-

ing his term of service conducts, under the immediate directions of the Clinical Professors, the reporting of all cases in the ward allotted to him. Students are required to show a certificate of having acted for six months as clinical clerk in medicine and six months in surgery, and are required to have reported at least ten cases in medicine and ten in surgery. The instruction obtained as clinical clerk is found to be of the greatest possible advantage to students, as affording a true *practical* training for his future professional life.

Dressers are also appointed to the Out-door Departments. For these appointments, application is to be made to the Assistant Surgeons, or to the resident surgeon in charge of the out-patient department.

The large number of patients affected with diseases of the eye and ear, now attending the special clinics at both hospitals afford ample opportunity to students to become familiar with all the ordinary affections of those organs, and to make themselves proficient in the use of the ophthalmoscope; and it is hoped that every student will thus seek to gain a practical knowledge of this important branch of Medicine and Surgery. Operations are performed on the eye by the Ophthalmic Surgeons after the outdoor patients have been seen, and students are invited to attend the same, and as far as practicable to keep such cases under observation so long as they remain in the Hospital.

There are also special departments in both Hospitals for Gynæcology and Laryngology, directed by Specialists in these branches. Students are thus enabled to acquire special technical knowledge under skilled direction. The plan of teaching practical gynæcology for the past five years with marked success has been the limitation of the number of students attending each clinic to four.

The Clinics at the Montreal General Hospital in Dermatology and in both hospitals in Laryngology are very large, and afford a practical training in affections of the skin and throat rarely obtained by medical students.

A special clinic for diseases of the Genito-Urinary Organs has been established at the Royal Victoria Hospital.

Infectious diseases and Insanity will also be taught clinically, the former in the special wards for infectious diseases and the latter at the Verdun Hospital for the Insane.

XIII.

Hospitals.

The City of Montreal is celebrated for the number and importance of its public charities. Among these its public hospitals are the most prominent and widely known. Those in which medical students of McGill University will receive clinical instruction are: (1) The Montreal General Hospital. (2) The Royal Victoria Hospital. (3) The Montreal Maternity Hospital.

The Montreal General Hospital has for many years been the most extensive clinical field in Canada. The old buildings, having proved inadequate to meet the increased demand for hospital accommodation, have been increased by the addition of two surgical pavilions, the Campbell Memorial, and the Greenshields Memorial, and of a new surgical theatre. The interior of the older buildings has been entirely reconstructed on the most approved modern plans.

The Royal Victoria Hospital at the head of University Street, which in structure and arrangements ranks among the finest modern hospitals of either continent, was opened for the reception of patients the first of January, 1894, and affords exceptional opportunities for clinical instruction and practical training.

Montreal General Hospital.

This Hospital consists of a Surgical, a Medical and a Pathological Department.

The Surgical Department has two large pavilions, containing four wards 135 feet long by 35 feet broad, with an intervening and connecting building in which is a large operating theatre of the most modern type, capable of seating over 350 students. In connection with this are preparation, etherising, instrument, sterilizing and surgeons' rooms, also smaller operating rooms. The surgical pavilions accommodate over one hundred patients.

The old part of the hospital, consisting of the Reid, Richardson and Morland wings, has been completely rebuilt and remodelled, and forms the Medical Department. This part contains four wards, 100 feet by 40, and is arranged for 150

beds. In this building there are wards for gynæcological and ophthalmological patients, and a number of private wards and laboratories for Clinical Chemistry. There is also a medical amphitheatre capable of seating 150 students and a gynæcological operating room fitted up in the most modern manner. The central part of the old building is for administration purposes.

A completely new and commodious out-door patient department has been provided on the ground floor of the Richardson wing, and there is ample accommodation for the various special departments as well as large rooms for general medical and surgical patients.

The Pathological Department is a completely new building in which are the post-mortem theatre and rooms for microscopical and bacteriological work, and also a mortuary and chapel. In this building students are offered every opportunity of perfecting their knowledge of morbid anatomy and pathological histology.

The old Fever Wards on the grounds of the Hospital have been completely remodelled, and are now used as a laundry and kitchen.

A much larger number of patients receive treatment in the Montreal General Hospital than in any other Canadian hospital. Last year's report shows that over three thousand Medical and Surgical cases were treated in the wards, and the great proportion of these were acute cases as may be gathered from the fact that the average duration of residence was only 24.02 days. There are upward of forty thousand consultations annually in the outdoor department of this Hospital.

The Royal Victoria Hospital.

This Hospital is situated a short distance above the University Grounds on the side of the Mountain, and overlooks the city. It was founded in July, 1887, by the munificence of Lord Mount Stephen and Lord Strathcona, who gave one million dollars for this purpose.

The buildings, which were opened for the reception of patients on the first of January, 1894, were designed by Mr. Saxon Snell of London, England, to accommodate between 250 and 300 patients.

The Hospital is composed of three main buildings connected together by stone bridges; an Administration Block

in the centre and a wing on the east side for medical patients, in immediate connection with which is the Pathological wing and mortuary, and a wing on the west side for surgical patients.

The Administration block contains ample accommodation for the resident medical staff, the nursing staff and domestics. The patient's entrance, the dispensary and admission rooms are also situated in this building. To the north of the Administration block has been erected a large out-patients' department, in which are special departments for Minor Surgery, Ophthalmology, Laryngology, and Gynæcology. This wing was opened for patients during the winter of 1899-1900.

The Medical wing contains three large wards, each 123 feet long by 26 feet 6 inches wide, one ward 40 feet by 26 feet 6 inches, and 15 private and isolation wards averaging 16 feet by 12 feet; also a medical theatre with a seating capacity for 250, and three rooms adjacent to it for clinical chemistry and other purposes. North of this wing and in direct connection with it are the Pathological laboratories and mortuary.

In this wing are situated the mortuary proper, the chapel, a post mortem room capable of accommodating 200 students, and laboratories for the microscopic and bacteriological study of morbid tissues, some designed for the use of students and others for post graduation courses and special research. Special laboratories for Pathological Chemistry, Experimental Pathology, Bacteriology and Photography are also provided.

The Surgical wing contains three large wards, each 123 feet long by 26 feet 6 inches wide, four wards each 40 feet by 32 feet, and seven private and isolation wards, averaging 16 feet by 12 feet; also a surgical theatre with a seating capacity for 250, with six rooms adjacent for preparation of patients.

In this wing are also the wards for Gynæcology and Ophthalmology. Three is also an Isolation Pavilion for infectious diseases.

XIV.

The Montreal Maternity.

The Faculty has great pleasure in announcing that the Corporation of the Montreal Maternity is now erecting a large new building fitted with the most modern appliances. The new hospital is situated at the corner of Prince Arthur and

St. Urbain streets. Students will therefore have greatly increased facilities for obtaining a practical knowledge of obstetrics and diseases of infancy. An improved Tarnier-Budin phantom is provided for the use of the students, and every facility afforded for acquiring a practical knowledge of the various obstetric manipulations. The Institution is under the direct supervision of the Professor of Midwifery, who devotes much time and attention to individual instruction. Students who have attended the course in Obstetrics during the winter and spring terms of the Third Year will be furnished with cases in rotation, which they will be required to report and attend till convalescent.

An outdoor service in connection with the Maternity has been established, the resident physician and a nurse being sent out to attend deserving cases in their own homes. Students who have had six cases in the hospital are sent out with the resident physician to such cases whenever it is possible.

Clinical Obstetrics has been placed upon the same basis as Clinical Medicine and Surgery, and a final clinical examination has been instituted. Every student must give in two complete clinical reports of cases observed by himself before presenting himself for the final clinical examination. Marks are given for these reports in the Final examination for degree. Regular courses of clinical lectures are given throughout the session, special attention being paid to the important subject of infant feeding. The Walker-Gordon process of modifying milk is explained and demonstrated. At the regular Saturday clinic the work of the past week is reviewed, and an opportunity is given for the examination of patients and the discussion of points of interest in diagnosis and treatment.

During the autumn and winter terms the Lecturer and Demonstrators of Obstetrics give a palpation course, clinical demonstrations in the wards and instruction in operative work on the phantom. Students will find it very much to their advantage to pay special attention to their clinical work during the spring term of the Third Year and the following summer.

One resident medical officer is appointed yearly to hold office for a period of nine months, and one for a period of three months.

Fee for twelve months, $12; payable at the Maternity Hospital.

XV.

Museums.

The Faculty has during recent years devoted special attention to the development of its museums in the several departments in which objective teaching is of especial value in the education of the student.

There are now four museums in the Medical Building: (1) the Museum of Pathology, (2) the Anatomical Museum, (3) the Museum of Public Health and Preventive Medicine, (4) the Museum of Pharmacy.

Each collection is arranged and selected with the primary object of making it a teaching museum. The several collections are open to students and the public between 9 a.m. and 5 p.m.

Pathological Museum.

Prof. J. G. Adami, Director.
Maude E. Abbott, B.A., M.D., Assistant Curator.
M. Jules Bailly, Osteologist and Articulator.

For the past fifty years the rich Pathological Material furnished by the Montreal General Hospital has been collected here. The Faculty is also greatly indebted to many medical men throughout Canada and different parts of the world for important contributions to the Museum.

During the past few years, numerous and extremely important additions have been made to the Medical Museum.

It is particularly rich in specimens of Aneurisms. In addition to containing a large number of the more common varieties of these formations, there are specimens of such rare conditions as Aneurism of the hepatic and superior mesenteric arteries, traumatic aneurism of the vertebral togther with several of the cerebral and pulmonary arteries. The most important collection probably in existence of hearts affected with "Malignant Endocarditis" is also found. The Faculty are indebted to Prof. Osler, late of this University, for this collection.

The Museum contains also a very large collection of different forms of calculi. The Faculty are mainly indebted to Prof. Fenwick for this collection.

During the past ten years, M. Bailly, osteologist and articlator (lately with Tramond of Paris), has been engaged in arranging and mounting the very large number of specimens of disease and injuries of bones which have been accumulating for years. In this collection are to be found examples of fractures and dislocations of the spine, osteoporosis, congenital dislocation of the hip, fracture of the astragalus, multiple exostoses, etc., etc.

The Pathological Museum has recently undergone complete alteration. All the old fixtures have been removed, a new gallery has been erected about both rooms, reached by a single staircase in a small intermediate room in which is placed the medico-legal collection.

The first room on entering contains the extensive bone collection and calculi. The second and larger room is reserved for the moist preparations, which are arranged so as to be of easy access for the student. Water color drawings made from the fresh specimens are mounted on swinging frames, and also form a frieze at the ceiling. These serve to recall the fugitive colors of those preparations which become more or less altered on keeping.

Numerous specimens have been contributed from the surgical and medical wings of the Royal Victoria Hospital, and from the different departments of the Montreal General Hospital.

Museum of Hygiene.

DIRECTOR:—PROF. T. A. STARKEY.

This Museum has been established from the interest accruing through the endowment of the Chair of Hygiene by Lord Strathcona and Mount Royal in 1893.

With a view to exhibiting not only specimens of the best and most approved types of appliances in each particular branch of Public Health, but also examples of types which are to be avoided on Hygienic Principles, the material in the Museum has been rearranged. In order to facilitate study and reference, the specimens have been classified upon a decimal system under the following sections:—

1. *Disinfection.* — Including disinfecting apparatus, disinfectants and antiseptics.

2. *Lighting and Heating.*—Showing contrivances used for these purposes.

3. *Water.*—Showing underground water and supplies drawn from it: methods of purification on large and small scales, including domestic filtration; exhibits of all the common modes of pollution of water supplies.

4. *Soil and Buildings.*—Various kinds of soil for building sites, etc.; effects of ground air and ground moisture on dwellings; building materials of all kinds, and measures against dampness and foul air.

5. *Air.*—Including ventilation, climate and meteorology, with apparatus illustrative of each class.

6. *Drainage and Refuse Disposal.*—This section includes every description of sanitary appliance used in building, drainage, and ultimate disposal of refuse, both liquid and solid. The section also includes types of faulty methods.

7. *Foodstuffs and Beverages.*—Adulterations and modes of transmission of disease.

8. *Clothing.*—Materials and their value for clothing.

9. *Vital Statistics,* Administration, etc.

In addition to the regular Museum Exhibit, there is a collection of over 1,000 lantern slides illustrative of phases of Hygiene. The slides have been so arranged as to be available for demonstrations as hand specimens. These slides as well as all the specimens in the Museum are card catalogued, and a projecting lantern is available for their demonstration.

The following are some of the principal exhibits:—Set of Knight's diagrams and models; working models illustrating house drainage, closets, etc., sewer air, movements of soil air; Doulton's models, of drainage, damp proof construction, absorption of moisture in building materials, ventilation appliance, combined heating and ventilation, automatic regulation of heating and ventilation; building materials; fire proofing; estimation of carbonic acid and moisture in the air; meteorological observation; water supply, water piping; water filtrations of public and domestic supplies; pollution of water supplies; ground water level; sewage and refuse disposal; food supply; food adulteration; examination of milk supplies; disinfection, disinfectants.

Anatomical Museum.

DIRECTOR:—PROFESSOR F. J. SHEPHERD.
M. JULES BAILLY, OSTEOLOGIST AND ARTICULATOR.

This Museum occupies a large room on the same floor and adjoining the Anatomy Lecture Room and Dissecting Room. Smaller apartments in connection are used for private research, which is encouraged in every way by the Faculty.

The Museum is well furnished and comfortable, and students have every opportunity of studying Human, Comparative and Applied Anatomy.

This department has during the past few years added a very complete collection of plaster and papier maché models by Steger, after the well-known works of His and Braune, comprising:—

(*a*) A complete set of Steiger's brain sections.

(*b*) Models of the cerebro-spinal and sympathetic nervous systems, viscera, muscles, etc.

(*c*) Professor Cunningham's well-known and beautiful casts of the head showing the relation of the cerebral convolutions to the skull and its sutures.

(*d*) A large collection of human brains, made by Professor Osler, formerly of this University, exhibiting the various types and extremes.

(*e*) A large and rare collection of anomalies of the renal vessels and ureter, and the aorta and its branches.

(*f*) In Comparative Anatomy the student will find a fair amount of material, the study of which will greatly aid him in the elucidation of many points in Human Anatomy.

(*g*) Some beautiful dissections of the semi-circular canals of the ears of fishes and also specimens showing the nervous system of fishes. Made and presented to the Museum by Dr. Cresswell Shearer.

(*h*) Many skeletons mounted by Mons. Jules Bailly, Articulator to the University, representing the various classes, orders, genera and species of the animal kingdom may be consulted.

(*i*) A large collection, showing the pectoral girdle in birds, has been prepared under the supervision of the Professor of Anatomy.

(*j*) Moist and dry preparations of dissections, a large collection of frozen cross sections of the human body, showing the normal relations of the viscera, etc., will be found convenient for study.

XVI.

Library.

Librarian:—Prof. F. G. Finley.

Assistant Librarian:—Miss M. R. Charlton.

The Library of the Medical Faculty now comprises upwards of twenty-three thousand volumes, the largest special library connected with a medical school on this continent.

The valuable libraries of the late Professors Robert Palmer Howard, George Ross, Richard L. MacDonnell, T. Johnston Alloway and of Dr. Allen Ruttan have been donated to the Medical Faculty.

The standard text-books and works of reference, together with complete files of the leading periodicals, are on the shelves. Students may consult any work of reference in the library between 9 a.m. and 6 p.m., and from 7.30 to 10.30 p.m. A large library reading-room for the use of students is provided.

Extracts from the Library Regulations.

I. During the College Session the Library is open daily (except Sundays and general public holidays) from 9 a.m. till 6 p.m., and from 7.30 to 10.30 every evening. During vacation from 9 a.m. to 5 p.m.

II. The stack room is not open to students or to the public.

III. The books in the Library are classed in two divisions: 1st, those which may be taken from the Library; 2nd, those which may not, under any circumstances, be removed from the Library. The latter class includes all catalogues, dictionaries and encyclopedias.

IV. Students will be allowed to use regular text-books only in the Library. Any other book may be taken out at 5.30 p.m. to be returned the next day. If books so removed from the Library are not returned punctually, a fine will be imposed, and if the delay be serious the student may be suspended from the use of the Library at the discretion of the Librarian.

V. Students may take out books, subject to the above regulations, to the number of three volumes at one time.

VI. Books may be taken from the Library only after they have been especially asked for and charged at the delivery desk; borrowers who cannot attend personally must sign and date an order, giving the titles of the books desired and the name of the person deputed to procure the same.

VII. Damage to or loss of books shall be made good to the satisfaction of the Librarian and of the Library Committee. Writing or making any mark upon any book belonging to the Library is unconditionally forbidden. Any persons found guilty of wilfully damaging any book in any way shall be excluded from the Library, and shall be debarred from the use thereof for such time as the Library Committee may determine.

VIII. Silence must be strictly observed in the Library.

IX. Infringement of any of the rules of the Library will subject the offender to a fine or suspension of his privileges, or to such other penalty as the nature of the case may require.

The number of volumes presented to the Library from Nov. 1st, 1903, to Oct. 31st, 1904	1,884
Those added by purchase	73
Total additions to November, 1904	1,957
The attendance of readers to June 15th, 1904, has been	15,688
The attendance from June 2nd, 1897, to May 14th, 1898, was	6,350
The attendance from June 1st, 1896, to June 1st, 1897, was	5,920
The attendance from June 1st, 1895, to June 1st, 1896, was	4,875
The number of books taken out for home use, Nov. 1st, 1903, to Oct. 31st, 1904	5,084
The number of journals and pamphlets has been	1,128

This does not include the works consulted in the Library.

The Faculty has endeavored to make the Library as complete as possible for research work. Complete files of almost all the important periodicals are now on the shelves, including foreign as well as English and American journals. A large

number of transactions of various societies have recently been acquired, and also the Berlin and Paris Theses.

Arrangements have been made whereby practitioners both in the city and country can avail themselves of the library, the only conditions being the payment of express charges and a guarantee for the safe return of books borrowed.

XVII.

McGill Medical Society.

This Society, composed of enregistered students of the Faculty, meets every alternate Saturday during the Autumn and Winter Terms, for the reading of papers, case reports and discussions on medical subjects. A prize competition has been established in Senior and Junior subjects, the Senior being open to all to write upon, while only the 1st, 2nd and 3rd year students are allowed to compete in the Junior subjects. The papers are examined by a board elected from the Professoriate, and a first and second prize in each division of subjects is awarded to the successful candidates.

Names of competitors and titles of papers shall be sent to the Chairman of the Programme Committee before September 1st, and all papers shall be subject to the call of the Committee on October 1st. All papers shall be handed in for examination on or before January 10th.

The students' reading room has been placed under the control of this Society, in which the leading English and American Medical Journals are on file, as well as the leading daily and weekly newspapers of the Dominion.

The annual meeting is held the first week of the Spring Term, when the following officers are elected: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter, Pathologist, and three Councilmen (of whom two shall be elected from the Faculty).

XVIII.

Hospital Appointments.

The Resident Medical and Surgical Staff of the Montreal General, the Royal Victoria and the Maternity Hospitals, is selected by examination from the members of the graduating

class of each year. There are from fifteen to twenty such appointments made annually which are tenable for from one to three years, while a number of them carry a small salary with them.

The following students of the Graduating Class of 1904 received hospital appointments:—

ROYAL VICTORIA HOSPITAL:—

Surgical Department:—Drs. F. McKenty, J. W. Coffin, J. A. Faulkner, B.A.
Medical Department:—Drs. J. C. Meakins and W. A. Lincoln.
Ophthalmologist:—Dr. L. C. Lauchland.
Laryngologist:—Dr. H. O. Howitt.
Anæsthetist:—Dr. F. D. Charman.
Medical Extern:—Dr. J. R. Rogers.
Locum Tenens:—Drs. J. E. Gillis and J. W. Hutchinson.

MONTREAL GENERAL HOSPITAL:—

House Surgeons and Physicians:—Dr. J. L. Robinson, J. C. Fyshe, A.B., J. A. Nutter, B.A., H. H. Kerr, L. L. Reford, B.A.
Resident Pathologist:—Dr. H. G. Wood.
Locum Tenens:—Drs. A. C. Rankin and W. T. Ainley.

MONTREAL MATERNITY HOSPITAL:—

Dr R. Gibson, short term.
Dr. D. C. McLachlan, long term.

DENTAL DEPARTMENT

of the

FACULTY OF MEDICINE.

General Announcement.

This Department of the Medical Faculty was established in 1904. As the regulation of studies and the registration of medical students and practitioners in the different Provinces of the Dominion are controlled by the medical boards of the separate Provinces, so in the Province of Quebec the Dental Association has a like control over dental students and the registration of practitioners in dentistry.

Under the regulations that have been established governing the Dental Department, students may register in dentistry after passing the matriculation required of students of Medicine in McGill University, but those wishing to practice in the Province of Quebec, except those who hold a degree in Medicine or Arts from a recognized British or Canadian University, must pass the matriculation examination of the Dental Association of the Province of Quebec.

Course of Instruction.

The course demanded of students in this department, and leading to the Degree of Master of Dental Surgery, extends over four years. In the first two years the curriculum is the same as that followed by medical students, and is conducted at the McGill Medical College. The practical work of the last two years will be conducted at the Dental College, special courses of lectures being delivered at McGill.

The Session 1905-06 will open on Wednesday, September 20th.

Indentures.

Those students who intend to practice in the Province of Quebec must sign indentures before a Notary Public with a licenciate of dental surgery in active practice in the Province, at the beginning of the college course, the Dental Act requiring four full years as an indentured student after the matriculation examination has been passed.

Curriculum.

First Year.—Anatomy, Practical Anatomy, Physiology, Practical Physiology, Physics, Inorganic Chemistry, Histology, Biology and Embryology, Bacteriology.

Second Year.—Anatomy, Practical Anatomy, Physiology, Practical Physiology, Organic Chemistry, Applied Medical Chemistry, Histology, Pharmacy and Pharmacology, Pathology.

Third and Fourth Years.—Operative and Mechanical Dentistry, Crown and Bridge-Work, Practical work in Infirmary, Dental Pathology, Materia Medica, Orthodontia, Anæsthetics, Dental Surgery.

Requirements for the Degree.

In order to obtain the degree of Master of Dental Surgery (M.D.S.), a candidate must (1) be of good moral character; (2) have attained the full age of 21 years; (3) have completed the full term of four years, and (4) have paid all fees and passed all required examinations.

The University Library.

C. H. Gould, B.A., Librarian.

The University Library is under the general management of a Committee of Corporation, consisting of the Principal, Chairman; the Librarian, Secretary; two members of the Board of Governors; one Representative Fellow, appointed by corporation; two representatives of the Faculty of Arts, elected by the Faculty; one representative of each of the Faculties of Applied Science, Law and Medicine, elected by their respective Faculties; and four other members appointed by Corporation.

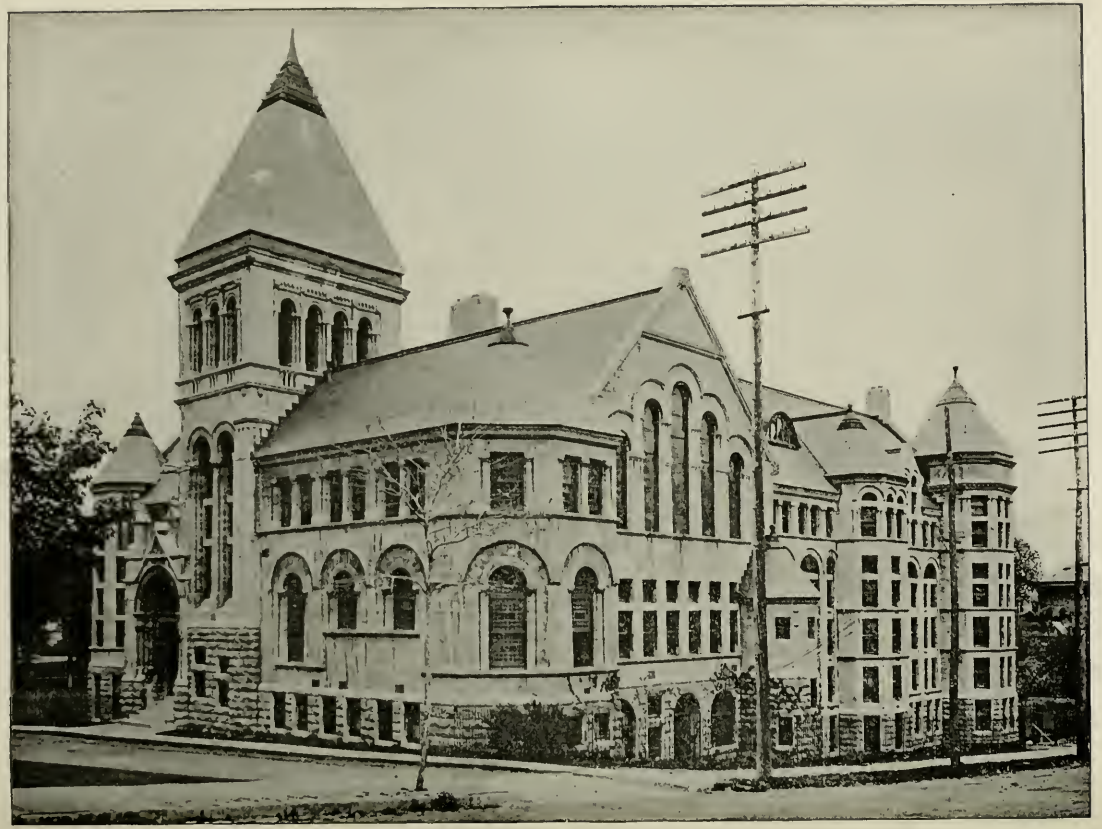
The various libraries of the University now contain about 106,000 volumes, a large number of pamphlets and considerable collections of maps and of photographs.

In addition to providing for the symmetrical growth of the Library, the Committee has latterly been enabled, through generous gifts, to acquire a number of the rarer and more costly monographs and serials which are indispensable for research; there being now on the shelves nearly 300 complete fyles of periodicals and of publications of various literary and scientific societies.

Many of these have been recently added through the liberality of Sir William C. Macdonald.

Among the special collections exclusive of departmental libraries, mention should be made of the *Redpath Historical Collection,* formed by the late Mr. Peter Redpath some years before his death. This is still being added to by Mrs. Peter Redpath, is now of great value, and affords unusual opportunities for the study of English History. The most striking feature of the collection—a series of political and religious tracts—has been greatly enlarged by Mrs. Redpath, and now comprises about 10,000 brochures, dating from 1600 to the end of the nineteenth century.

Abundant materials, bearing upon the History of Canada, have been gathered together. Of these the nucleus is formed by the entire library of the late Mr. Frederick Griffin, whose



University Library.

choice books were, some years ago, bequeathed to the University. This branch of the library is being steadily augmented, and includes, besides important manuscripts, an interesting collection of Canadian portraits and autographs.

The Medical Library, directly controlled by the Faculty of Medicine, is the largest of the departmental libraries, and is one of the most complete collections of its kind in the Dominion.

Current periodicals, with Transactions and other Society publications to the number of about 360 in the aggregate, are regularly received by the Library. The list of these serials is being extended year by year.

Members of the family of the late Mr. Hugh McLennan generously enabled the Library Committee to establish a system of travelling libraries, during the autumn of 1900, and since then have provided for the maintenance and operation of the system. The libraries are sent on application, and on payment of a nominal fee of $3.00, to any point in Canada. Regulations and full particulars may be obtained from the Librarian of the University.

Although the library is maintained primarily for members of the University, the Corporation has provided for the admission, upon certain conditions, of such persons as may be approved by the Library Committee. It is the desire of the Committee to make the library as useful to the entire community as is consistent with the safety of the books and the general interests of the University.

Extracts from the Library Regulations.

1. During the College Session the Library is open daily (except Sundays and general public holidays), from 9 a.m. till 5 p.m.; and the Reading Room from 9 a.m. till 6 p.m., and also from 7.30 till 10.30 p.m. On Saturdays, both Library and Reading Room close at 5 p.m. During vacations, both Library and Reading Room close at 5 p.m., and on Saturdays at 1 p.m.

2. Students in the Faculty of Arts, of Law, and of Applied Science are entitled to read in the Library, and may borrow books (subject to the regulations) to the number of three volumes at one time.

3. Students in the Faculty of Medicine, who have paid the Library fee to the Bursar, may read in the Library, and on depositing the sum of $5 with the Bursar, may borrow books on the same conditions as students in other Faculties. They are required to present their Matriculation Tickets to the Bursar and to the Librarian.

4. Graduates in any of the Faculties, on making a deposit of $5, are entitled to the use of the Library, subject to the same rules and conditions as students in Arts, Law, or Applied Science.

5. Books may be taken from the Library only after they have been charged at the Delivery Desk: borrowers who cannot attend personally must sign and date an order, giving the titles of the books desired.

6. Books in the Reference Library must not be taken from the Reading Room; and, after they have been used, they must be returned promptly by readers to their proper places upon the shelves.

7. Before leaving the Library, readers must return the books they have obtained to the attendant at the Delivery Desk.

8. All persons using books remain responsible for them so long as the books are charged to them, and borrowers returning books must see that their receipt is properly cancelled.

9. Writing or making any mark upon any book belonging to the Library is unconditionally forbidden. Any person found guilty of wilfully damaging any book in any way shall be excluded from the Library; and shall be debarred from the use thereof for such time as the Library Committee may determine.

10. Damage to or loss of books, maps, or plates, and injury of Library fixtures, must be made good to the satisfaction of the Librarian and of the Library Committee.

Damage, loss or injury when the responsibility cannot be traced will be made good out of the caution money deposited by students with the Bursar.

11. Should any borrower fail to return a book upon the date when its return is due, he may be notified by postal card of his default, and be requested to return the book. If the loan is not renewed, or the book returned, after a further

delay of at least three days, it may be sent for by special messenger, at the borrower's expense.

12. Before the close of the session, students in their final year must return uninjured, or replace to the satisfaction of the Librarian, all books which they have borrowed.

13. Silence must be strictly observed in the Library.

14. Infringement of any of the rules of the Library will subject the offender to a suspension of his privileges, or to such other penalty as the nature of the case may require.

McGill College Book Club.

ESTABLISHED, A.D. 1869.

This Club is in the 36th year of its existence, and has for its two-fold object to procure an early supply of new books (novels excluded) for its members, and the increase of the Library. By this means an addition has already been made to the Library of not less than 4,000 volumes in special and general literature.

Membership in the Club is open to all, at an annual subscription of ten dollars.

Apart from the advantages to be directly derived from membership, there is the special privilege accorded to members of using the College Library on the same conditions as graduates, without being required, however, to make a deposit when books are borrowed.

Mr. W. M. Ramsaycmfwyp shrdluMurrMMM cmfwy wodar

The members of the Executive Committee are Dr. Alex. Johnson, Mr. W. M. Ramsay, F. P. Walton, B.A., LL.B.; Mr. G. B Cramp and Dr. Andrew Macphail, to any of whom application for membership may be addressed, or to Mr. E. M. Renouf, Secretary, at the Club's Depository, 2210 St. Catherine Street.

McGill Normal School.

The McGill Normal School, in the city of Montreal, is established chiefly for the purpose of training teachers for the Protestant population, and for all religious denominations of the Province of Quebec, other than the Roman Catholic. The studies in this school are carried on chiefly in English, but French is also taught.

Government of the School.

The Corporation of McGill University is associated with the Superintendent of Public Instruction in the direction of the McGill Normal School, under the regulations of the Protestant Committee of the Council of Public Instruction, and it is authorized to appoint a standing committee consisting of five members, called the "Normal School Committee," which shall have the general supervision of the affairs of the Normal School. The following members of the Corporation of the University constitute the committee of the Normal School for the Session 1905-1906:—

W. Peterson, LL.D., C.M.G., Principal of the University, Chairman.
Charles E. Moyse, B.A. LL.D., Dean of the Faculty of Arts.
J. R. Dougall, M.A.
Rev. E. I. Rexford, M.A., LL.D.
Rev. James Barclay, M.A., D.D.
J. A. Nicholson, M.A., Secretary.

} Fellows of McGill University.

Officers of Instruction.

McGill Normal School.

Sampson Paul Robins, M.A., LL.D., D.C.L., Principal and Lecturer on Art of Teaching.
Abner W. Kneeland, M.A., B.C.L., Ordinary Professor of English Language and Literature.

Madame Sophie Cornu, Ordinary Professor of French.
Mr. Henry F. Armstrong, Associate Professor of Drawing.
Miss Lilian B. Robins, B.A., Assistant to the Principal and Instructor in Classics.
Mr. W. H. Smith, Instructor in Vocal Music.
Mr. John P. Stephen, Instructor in Elocution.
Miss Carrie M. Derick, M.A., Lecturer in Botany.
Nevil N. Evans, M.A.Sc., Lecturer in Chemistry.
J. A. Williams, M.D., Lecturer on Physiology and Hygiene.
H. T. Barnes, D.Sc., Lecturer on Physics.
A. W. G. Wilson, M.A., Ph.D., Lecturer on Physiography.
Mr. James Walker, Instructor in Penmanship and Book-keeping.
Miss Louise Derick, Instructor in Kindergarten Methods.
Mr. E. W. Arthy, Lecturer in the Theory of Kindergarten and Transition Work.
Miss Jessie Y. Chisholm, Instructor in Kindergarten History and Principles.
Miss V. M. Holmstrom, Instructor in Calisthenics.
Mr. Carl Johansson, Instructor in Manual Training.
Miss Josephine T. Dow, Instructor in Cooking.
Miss M. J. Connor, Instructor in Sewing.
Miss Mary R. Knowlton, Principal's Secretary and Librarian.

Model Schools of the McGill Normal School.

E Montgomery Campbell, B.A., Head Master of Boys' School.
Miss Mary I. Peebles, Head Mistress of Girls' School.
Miss Selina F. Sloan, Head Mistress of Primary School.
and a Staff of Twelve Assistants.

Announcement for the Session 1905-1906.

This Institution is intended to give a thorough training to teachers, by instruction and training in the Normal School itself, and by practice in the Model Schools; and the arrangements are of such a character as to afford the greatest possible facilities to students from all parts of the province. The

Protestant Central Board of Examiners for the Province of Quebec grants diplomas only to teachers-in-training of this Institution and to graduates of British or Canadian Universities.

The fiftieth session of this School will commence on the first of September, 1905, and close on the thirty-first of May, 1906. The students are graded as follows:—

1.—*Elementary Class.* — Studying for the Elementary Diploma.

2.—*Advanced Elementary Class.* — Studying for the Advanced Elementary Diploma.

3.—*Kindergarten Class.* — Studying for the Kindergarten Diploma.

4.—*Model School Class.*—Studying for the Model School Diploma.

5.—*Class in Pedagogy.* — Preparing for the Academy Diploma.

Detailed information respecting the courses of the four grades first enumerated above may be obtained on application to the Principal of the School, at 32 Belmont St., Montreal.

Academy Diplomas to Graduates.

All holders of model school diplomas that have been granted by the McGill Normal School or that shall hereafter be granted by the Central Board of Examiners shall be entitled to receive Academy diplomas on graduating in Arts at some Canadian or other British university.

All graduates in Arts of Canadian or other British universities who have passed satisfactory examinations in Education and Practical Teaching under the control of the Universities or of the McGill Normal School, as approved by the Protestant Committee of the Council of Public Instruction, shall be entitled to receive Academy diplomas. The Central Board of Examiners shall determine who have passed satisfactory examinations in Education and in Practical Teaching in view of the results of the examinations and of the recommendations of the professors of education. The Central Board of Examiners is empowered to set one-half of the questions in Education, and to prescribe the tests of ability to teach and to govern which must be followed in such examinations.

To meet the requirements of graduates and undergraduates in Arts, who, not having previously taken a Normal School course, desire to receive Academy diplomas, and until the Universities themselves undertake the work, provision has been made for the delivery of a course of lectures on pedagogy in the Normal School and for practice in teaching in the McGill Model School for fifty half days, open to graduates in Arts of any British or Canadian university, to undergraduates of the Third Year, and with the permission of the Faculty and the concurrence of the Principal of the Normal School, to those of the Fourth Year. The hours assigned for these lectures are from 3 to 4 p.m. on each Tuesday and Friday on which lectures are given in the Faculty of Arts. An examination on this course of lectures is held annually on the 20th day of May, or on the school day next succeeding that date; the hours are from 10 a.m. to 12 noon.

Undergraduates will be permitted to teach the fifty half days referred to above, during the months of December and May of the Third and Fourth Years of their college course. Graduates will be permitted to teach in the Model Schools at such times as may be agreed on with the Principal. Those who teach in the Model Schools are expected to prepare all lessons and discharge all duties assigned them with faithfulness. Failure to teach or to govern in the Model Schools, as indicated by the percentage of marks taken, no less than failure to pass the examination on the course of lectures, endangers the Academy diploma.

Each person desiring to take this course of study in the Normal School must make application for permission to enter, to the Secretary of the Central Board of Examiners, on the authorized form, remitting to him at the same time all necessary certificates of standing and character, and a fee of $4.00. While in attendance on this course each person is subject to the regulations of the said school, and is under the supervision and control of its Principal.

Exemption from Matriculation Examination in McGill University.

Holders of Model School diplomas of the McGill Normal School who are certified by the Principal of the Normal School to have taken 75 per cent. of the total marks at their final ex-

aminations, with not less than 50 per cent. of the marks in Mathematics, French, and Latin or Greek respectively, will be admitted without further examination to the First Year in Arts of McGill University; but all such students must make good their standing at the Christmas examinations of the University.

Bursaries for Graduates of the Normal School.

Three bursaries, of the value of $60.00 each, are offered annually in the Faculty of Arts to the three teachers-in-training of the McGill Normal School who have (1) satisfied the requirements for entrance to this Faculty, as above specified, and (2) who, of all those applying for these bursaries, stand highest in their final examinations.

Graduates.

SESSION 1903-1904.

Faculty of Law.

PASSED FOR THE DEGREE OF B.C.L.

(In Order of Merit.)

Dickson, Norval, B.A.
Williams, H. S., B.A.
McDougall, W. W. M. E.
Cotton, W. V., B.A.
Brodie, H. H., B.A.
Drouin, J., B.A. } Equal.
Phelan, M. A., B.A. }
Ogilvie, W. P.
Vineburg, A. H., B.A.
Staveley, W. R.
Ker, T. R.
Chipman, W. F., B.A.
DeWitt, J., B.A.
Mackie, H. A., B.A.

Faculty of Arts.

PASSED FOR THE DEGREE OF B.A.

IN HONOURS.

(In Alphabetical Order.)

FIRST RANK.—Archibald, John G.
Brooks, Elizabeth A.
Brown, William G.
Campbell, D. Grant.
Freeze, Helen L.
Gardner, Helen I.
Griffin, Grace L.
Hart, Ethel M.
Hindley, J. G.
Lathe, Frank E.
MacKenzie, A. D. M.
MacKenzie, Catherine.
MacLeod, Annie.
Rose, H. J.
Shanks, George.
Sheldon, Ernest W.
Simpson, Edith P.

SECOND RANK.—Dickson, Ada D.
Hadrill, M. F.
McCally, Mary K.
McGougan, E.
Rubinowitz, I. I.

ORDINARY B.A.

(In order of merit. Students of equal standing are bracketed together.)

CLASS I.—Healy, W. J.
MacFarlane, C. McK.
McDonald, George C.

CLASS II.—Henry, Alice O. E.
Papineau, Talbot M.
Draper, Madolin A.
Stewart, Lilian J.
Ellison, Ada A.
Wilson, Alice Muriel.
Mowatt, Edward.
Marshall, W. W.
Bouchard, Myra MacL.
Logan, David.
Mingie, George W.
Walker, James H. E.

CLASS III.—Robertson, Ethel C.
Craig, Bessie.
Bell, Ruth.
Molson, Walter.

ÆGROTAT.

Stewart, J. Ure

DOUBLE COURSE STUDENTS WHO OBTAINED THE DEGREE OF B.A.

Wickware, F. G.
Chandler, A. B.
Gurd, Fraser B.
Lomer, Theo. A.

B.A. AD EUNDEM.

Morgan, Cleveland, B.A. (Cantab.)

DOUBLE COURSE STUDENT WHO OBTAINED THE DEGREE OF B.SC.

McDiarmid, J. S.

ADMITTED TO THE DEGREE OF M.A., IN COURSE.

Lomer, Gerhard R.
Mitchell, Sydney.
Morgan, Cleveland.

M.A. AD EUNDEM.

Shaw, James C., M.A. (Harvard).

ADMITTED TO THE DEGREE OF M.SC., IN COURSE.

Lundie, Helen.

MASTER OF SCIENCE ADMITTED TO THE DEGREE OF D.SC., IN COURSE.

Penhallow, D. P.

ADMITTED TO THE DEGREE OF LL.D., HONORIS CAUSA.

Jusserand, His Excellency Jean Adrien Antoine Jules.
Lynch, Hon. Justice William Warren.
Rexford, Rev. E. I., M.A.

Faculty of Applied Science.

PASSED FOR THE DEGREE OF BACHELOR OF SCIENCE.

(In Order of Merit.)

CHEMISTRY.

Johnson, Frederick Murray Godschall, Montreal, Que.
Spencer, Arthur Gordon (B.A.), Truro, N.S.
Le Maistre, Frederick John, Westmount, Que.
MacNaughton, William Gilbert (B.A.), Huntingdon, Que.

CIVIL ENGINEERING.

Blumenthal, Samuel, Montreal, Que.
Lawrence, William Dawson, Maitland, Hants County, N.S.
Harvey, John Buicke, Lyndhurst, Ont.
Blanchard, Aubrey Amison, Charlottetown, P.E.I.
Lucas, Frederick Travers, Hamilton, Ont.
Osler, Stratton Henry, Cobourg, Ont.
Lambart, Howard Frederick John, New Edinburgh, Ont.
Haffner, Henry John Alexander, Winnipeg, Man.
Jennings, Gordon Tyndall, Toronto, Ont.

ELECTRICAL ENGINEERING.

McDougall, George Kinghorn, Montreal, Que.
Cole, George Herbert, Ottawa, Ont.
Cardew, John Haydon, South Beach, Young's Point, Ont.
Scott, George Walker (B.A.), Montreal, Que.
McCloskey, Frederick William, Boiestown, N.B.
Wenger, John Allen, Ayrton, Ont.
Peaslee, Alexander Sanky Latty, Defiance, Ohio, U.S.A.
Dutcher, Howard Ketchum, Charlottetown, P.E.I.
Marrotte, Louis Henry, Westmount, Que.
Wurtele, John Stone Hunter, Acton Vale, Que.
Blatch, Henry Ellis, St. John's, Nfld.
Rodger, Herbert Freeman, St. John's, Nfld.

Roffey, Myles Herbert, Braintree, Essex, Eng. *Ægrotat.*
Brown, Frederick Baylis (B.Sc.), Montreal, Que.
McKay, Frederick Alexander (B.Sc.), Montreal, Que.
Gale, George Gordon (B.Sc.), Quebec, Que.

MECHANICAL ENGINEERING.

Chaplin, Charles John, Westmount, Que.
Drysdale, William Flockhart, Montreal, Que.
Kemp, Robert Alexander, Beamsville, Ont.
Greely, John William Gamble, Toronto, Ont.
Wilkes, Frederick Chauncey Douglas, Brantford, Ont.

MINING ENGINEERING.

McPhee, James McDonald, Lock Katrine, N.S.
Parlee, Norman Whittier, Rossland, B.C.
Grice, James Hugh, Bootle, Cumberland, Eng.
Carlyle, Ernest Jerrold, Woodstock, Ont.
Chambers, Robert Allison, Truro, N.S.
Taylor, Reginald Fairman, Gananoque, Ont.
Richards, Charles Clifton, Charlottetown, P.E.I.
McMurtry, Gordon Ogilvie, Montreal, Que.
Campbell, Colin St. George, Aldershott, Ont.
Webster, George Boyd, Montreal, Que.
Davis, Patrick Moy, Windsor, Ont.
Deyell, Harold John, Port Hope, Ont.
Sullivan, Michael Henry, Ottawa, Ont.
Cameron, John Alvin, Toronto, Ont.
Wilson, William Douglas, Hamilton, Ont.
Gnaedinger, Ernest George, Montreal, Que. *Ægrotat.*

On Special Examination.

ELECTRICAL ENGINEERING.

Devlin, Cecil G.

MINING ENGINEERING.

Atkinson, M. Brodie.

ADMITTED TO THE DEGREE OF BACHELOR OF SCIENCE.

(AD EUNDEM.)

Beullac, Marcel Célestin Joseph, B.Sc. (Univ. of France), Montreal, Que.

ADMITTED TO THE DEGREE OF MASTER OF SCIENCE.

(In Course.)

Egleson, James Ernest Aiken, B.Sc., Ottawa, Ont.
Gill, James Lester Willis, B.A.Sc., Kingston, Ont.
Hall, Oliver, B.Sc., Washington, Ont.
McKergow, Charles Millar, B.Sc., Westmount, Que.
Roberts, Arthur Reginald, B.Sc., Montreal, Que.
Robertson, John Ferguson, B.Sc., Charlottetown, P.E.I.

ADMITTED TO THE DEGREE OF DOCTOR OF SCIENCE.

(In Course.)

Waddell, John Alexander Law, M.Sc., Kansas City, Mo., U.S.A.

ADMITTED TO THE DEGREE OF DOCTOR OF LAWS.

(HONORARY.)

Edward Weston, Esq., Newark, N.J.

Faculty of Medicine.

PASSED FOR THE DEGREE OF DOCTOR OF MEDICINE AND MASTER OF SURGERY.

(Alphabetically arranged.)

Ainley, L. J., B.A., Almonte, Ont.
Ainley W. E., B.A., Hamilton, Bermuda.
Alford, J. H., Ottawa, Ont.
Atkinson, H. S., Hants Harbor, Newfoundland.
Bentley, S. K., B.A., Truro, N.S.
Black, J. C., Oxford, Ont.
Bonin, R. P., Montreal, Que.
Charman, F. D., Wallace, N.S.
Chipman, W. W., Ottawa, Ont.
Coffin, J. W., Mount Stewart, P.E.I.
Cook, W. J., Coboconk, Ont.
Crack, I. E., B.A., Kingsbury, P.Q.
Cram, W. J., Philadelphia, Pa.
Crosby, P. C., Marshfield, P.E.I.
Crowell, B. C., B.A., Yarmouth, N.S.
Davidson, H. D., Sherbrooke, Que.
Dillon, W. P., Iroquois, Ont.
Douglas, E., B.A., Halifax, N.S.
Dunn, J. F., Elgin, Ont.
Eaton, C. E., Stanbridge, Que.
Faulkner, J. A., B.A., Stirling, Ont.
Fisher, E. M., Blue Bonnets, Que.
Fisher, F., Bay of Islands, Newfoundland.
Folkins, C. G., Millstream, N.B.
Ford, H. S., Vancouver, B.C.
Fraser, S., Leeds, Que.
Fyshe, J. C., A.B., Montreal, Que.
Gibson, G. M., Huntingdon, N.Y
Gibson, R., Nanaimo, B.C.
Gillis, J. E., Darlington, P.E.I.
Gilroy, J. R., Springhill, N.S.
Gormely, J. C., Finch, Ont.
Graham, R. W., Sawyerville, Que.
Grant, N. P., Woodstock, N.B.

Greenwood, W. T., St. Catharines, Ont.
Harrison, L. L., B.A., Maccan, N.S.
Hogan, F. J., Tignish, P.E.I.
Hotchkiss, E. A., Collinsville, Conn.
Howitt, H. O., Guelph, Ont.
Hutchinson, J. W., Montreal, Que.
Johnson, J. G. W., M.A., Montreal, Que.
Judson, A. H., Lynn, Ont.
Kerr, H. H., Washington, D.C.
Keys, M. J., Hulbert, Ont.
Lauchland, L. C., B.A., Oshawa, Ont.
Lincoln, W. A., Stanstead, Que.
Lippiatt, H. T., Montreal, Que.
Losier, A. J., Tracadie, N.B.
MacKenzie, A. B., Springfield, P.E.I.
MacKid, L. S., Calgary, Alta.
MacIntosh, L. deC., Dundela, Ont.
McKenzie, R. P., Rossland, B.C.
McKenty, F., Bath, Ont.
MacLachlan, D. C., Lochaber Bay, Que.
Markson, S. M., Glen Robertson, Ont.
Martin, J. C., Whitechurch, Ont.
Meakins, J. C., Hamilton, Ont.
Miller, Clarence, Stellarton, N.S.
Miller, V. L., B.A., Bear River, N.S.
Murphy, H. H., B.A., Antrim, Ont.
Nagle, S. M., Almonte, Ont.
Nutter, J. A., B.A., Montreal, Que.
Park, A. W., Durham, Ont.
Preston, C. E., Ottawa, Ont.
Price, Joseph, Campbellton, N.B.
Quain, B. P., Brushton, N.Y.
Rankin, A. C., Montreal, Que.
Reford, L. L., B.A., Montreal, Que.
Richardson, C. A., East Jefferson, Maine.
Richardson, C. A. C., B.A., Sydney, C.B.
Robinson, J. L., St. Marys, Ont.
Rogers, J. T., B.A., Montreal, Que.
Sellery, A. C., Kincardine, Ont.
Sims, H .A., Montreal, Que.
Stewart, J. A., Norboro, P.E.I.
Tanner, C. A. H., Windsor Mills, Que.
Warwick, W., St. John, N.B.
Wilson, O. M., Smith Falls, Ont.
Wilson, T. R., B.A., Carp, Ont.
Wood, H. G., Faribault, Minn.
Wright, G. A., Stoney Creek, N.B.
Yorston, F. P., M.A., Newcastle, N.B.

PASSED AT CHRISTMAS.

Blakeman, E. W., Stratford, Ont.
Carnochan, W. L. C., Montreal, Que.
Dickson, W. H., Pembroke, Ont.
Smith, C. M., Red Mountain, Que.

Graduates.

SESSION 1904-1905.

Faculty of Law.

PASSED FOR THE DEGREE OF B.C.L.

(In order of merit.)

Harris, S. Dale, B.A.
Morin, L. S. R., B.A.
Coulin, J. E.
Stephens, L. de K., B.A.
Wallace, R. P.
Duffy, F. J.
Robertson, K. G., B.A.

(Already announced.)

Pope, C. A., B.A.

Faculty of Arts.

PASSED FOR THE DEGREE OF B.A.

IN HONOURS.

(In Alphabetical Order.)

First Rank.—Bowman, Nora.
Chodat, Henri.
Fraser, George A.
Idler, May.
King, Louis V.
McFee, M. C. Coll.
Michaels, Rosebud.
Moule, Frances.
Taber, Marion M.D.

Second Rank.—Lyman, Ruth L.
Smith, Ella.
Smith, May.

ORDINARY B.A.

(In order of merit. Students of equal standing are bracketed together.)

Class I.—Adams, C. A.

CLASS II.—Howitt, H.
Blanchard, C. H. S.
Jenkins, J.
Hill, Julia.
Robinson, F. G.
Halpenny, T. A.
Roy, P. R.
Curtis, W. E.
McMurtry, R. O.
Hitchock, Mary A.
Pearson, Mary E. F.
Carruthers, C.
Stewart, T. S.
Stewart, W.
Tupper, C. S.

CLASS III.—Colgrove, W. G.
Munn, Laura A.
Cameron, A. W.
Crane, C. W.
Robinson, W. W.
Gillean, A. Muriel.
Cotton, T. F.
Graham, J. H.
Ower, J. J.
Healey, Rose E.
Hyde, G. G.
Hepburn, Flora E.

DOUBLE COURSE IN ARTS AND APPLIED SCIENCE.

Dickenson, John G.
Harvie, R.

DOUBLE COURSE STUDENTS IN ARTS AND MEDICINE WHO WILL BE QUALIFIED TO OBTAIN THE DEGREE OF B.A. IN JUNE, 1905, ON COMPLETING THEIR MEDICAL YEAR.

Cross, E. C.
Fripp, G. D.
Gray, E. H.
Locke, E. E.
Rabinovitch, M.
Tannenbaum, D.

ORDINARY B.SC.

CLASS I.—McCoy, M. Isabel.

BACHELORS OF ARTS PROCEEDING TO THE DEGREE OF M A IN COURSE.

Fee, James Erwin.
Hadrill, Margaret Frances.
Jack, Milton.
MacKenzie, Angus Donald Morrison.
McGougan, Edward.
Munn, Walter Clement.
Robertson, Lennuel
Sheldon, Ernest Wilson.

BACHELORS OF ARTS PROCEEDING TO THE DEGREE OF M.SC., IN COURSE.

Henderson, Ernest Henry.
Macleod, Annie Louise.

MASTER OF SCIENCE PROCEEDING TO THE DEGREE OF D.SC., IN COURSE.

McIntosh, A. Douglas.

ADMITTED TO THE DEGREE OF LL.D., HONORIS CAUSA.

Keefer, Thomas Coltrin.

Faculty of Applied Science.

PASSED FOR THE DEGREE OF BACHELOR OF SCIENCE.

(In order of merit.)

CIVIL ENGINEERING.

Fyshe, Thomas Maxwell, Montreal, Que.
Kydd, George, Montreal, Que.
Jewett, F. Coburn, Sheffield, N.B.
Hogan, John, Westmount, Que.
Jost, Edward Burton, Guysboro, N.S.
Idsardi, Harold William, St. Thomas, Ont.
Putnam, Alfred Allan, Halifax, N.S.
Hamilton, Samuel Wilfred, Montreal, Que.

ELECTRICAL ENGINEERING.

Boyle, Robert William, Carbonear, Nfld.
MacDermot, Sidney Guy Fleetwood, Ropley, Jamaica, West Indies.
Harris, Alan Dale, Ottawa, Ont.
Cropper, William Charles McDonald, Kingstown, St. Vincent, West Indies.
Burpee, Lockwood, Gibson, N.B.
Findlay, Delmer Clinton, Danville, Que.
Wheaton, Hazen Ashley, Elgin, Albert Co., N.B.
Johnstone, George Albert, Rednersville, Ont.
Archibald, Hiram Herman, Harbour Grace, Nfld.
Willard, Charles, Morrisburg, Ont.
Glassco, Gordon Bond, Hamilton, Ont.
Scouler, Gavin Theodore, New Westminster, B.C.
Campbell, John Alexander Cheltenham, Ont.
Ross, Walter Garfield, Port Perry, Ont.
Redpath, William, Montreal, Que.
Cunha, Stanton Herbert Stanley, Kingston, Jamaica, West Indies.
Bowness, Ernest William, Kensington, P.E.I.
Drinkwater, Kenneth E., Montreal, Que.
Bedwell, Charles Francis, Columbus, Ohio, U.S.A.
Price, Herbert Lawrence, Montmorency, Que.
Wright, Clifton Hazle, Barbados, West Indies.
McLean, Donald, Campbellton, N.B.
Joseph, Abraham Pinto, Quebec, Que.

MECHANICAL ENGINEERING

Leonard, E. Ibbotson, London, Ont.
Sutherland, Charles H., New Glasgow, N.S.
MacMillen, Harry Hind, Alberry Plains, P.E.I.
Gillies, George Ackland, Carleton Place, Ont.
Cockshutt, Harvey W., Brantford, Ont.
Turnbull, Harvard, Montreal, Que.

METALLURGY.

Hamilton, Alfred McLean, Westmount, Que.

MINING ENGINEERING.

Forbes, Harry Leo, Waverley, Halifax Co., N.S.
McDougall, Clarence Hobart, South Maitland, Hants Co., N.S.
Martin, Edward Newcome, York, Ont.
Sharpe, George Pearce, Agassiz, B.C.

Scholarships and Exhibitions.

SESSION 1904-1905.

FACULTY OF ARTS.

I. Third Year Scholarships. (Tenable for two years).

Names of Scholars.	Subjects of Examination.	Annual Value.
Carr, W. L.	Mathematics and Physics	$150.00
Rorke, Mabel	" "	150.00
MacLeod, A. R	Latin and Greek	150.00
Naylor, R. K	English and Latin	150.00
Ryan, E. L	English and French	75.00
Sharp, Evelyn	Chemistry	150 00

II Second Year Exhibitions. (Tenable for one year).

Names of Exhibitioners.	Subjects of Examination.	Annual Value.
Wilson, G. T.	Mathematics, Physics and Latin	$150.00
Meldrum, H. T.	Mathematics, Physics and Latin	75.00
Couture, Ida	French, German and Latin	150.00
King, Lucile	French, German and Latin	150.00
Eaton, Mary J.	Latin, English and German	100.00
Auld, F. M.	Latin, English and Physics	100.00
Gould, E. M.	Latin, English and Physics	60.00
Vincent, I.	Latin, Greek and English	60.00

III. First Year Exhibitions. (Tenable for one year).

Names of Exhibitioners.	Annual Value.
McGougan, Alexander Graham (Glencoe High School), Glencoe, Ont.	$300.00
Archibald, Kenneth (Montreal High School), Montreal	150.00
Gillis, Norman Robert (Prince of Wales College, Charlottetown, P.E.I.), Hartsville, P.E.I.	150.00
Ortenberg, Samuel (Quebec High School), Quebec, P.Q.	150.00
Stairs, George William (Upper Canada College), Halifax, N.S.	150.00
Ross, Lilia Isobel (Hamilton Collegiate Institute), Dundas, Ont	150.00
Lindsay, Sydenham Bagg (St. John the Evangelist School), Montreal	125.00
Meldrum, William Buell (Ottawa Collegiate Institute), Ottawa, Ont	125.00
McDonald, Malcolm William (Sherbrooke High School), Sherbrooke, Qu	100.00
Smith, Gertrude E. (Lachine Academy), Lachine, Que	100.00
Simand, Joseph (Montreal High School), Montreal	100.00
Wisdom, Bessie Bell (St. John High School), St. John, N.B	*200.00
Plaisted, Gertrude (Dunham Ladies' College), Dunham, Que	*100.00

* Conditioned on residence in the Royal Victoria College.

FACULTY OF APPLIED SCIENCE.

Exhibitions and Prizes.

TO STUDENTS ENTERING THE FOURTH YEAR.

Boyle, Robert W., British Association Exhibition.
McDermot, Sidney G. F., British Association Exhibition.

TO STUDENTS ENTERING THE THIRD YEAR.

Sharp, L. A., McCarthy Prize for Surveying and Fieldwork.
Piers, E. O. Temple, Second Mathematical Prize.
McLachlan, D. William, Third Mathematical Prize.
McLachlan, D. William, McCarthy Prize for Surveying and Fieldwork.

TO STUDENTS ENTERING THE SECOND YEAR.

Lamb, Henry, M., Scott Exhibition.
Pringle, Angus F, Scott Prize.

The Smithy.

The Foundry.

Students of the University.

SESSION 1904-1905.

Faculty of Law.

FIRST YEAR.

UNDERGRADUATES.

Creelman, John Jennings, B.A., Montreal.
Dillon, Joseph Henry, Montreal.
Girouard, Joseph Arthur, Dawson, Y.T.
Madore, Rodolphe, Montreal.
Papineau, Talbot M., Montreal.
Parkins, Edgar R., Montreal.
Walker, James Harold Earle, Montreal.

SECOND YEAR.

UNDERGRADUATES.

Calder, Robert Louis, Montreal.
Couture, Gui C. Papineau, Montreal.
Crankshaw, James, Jr., Westmount, Que.
Downes, Patrick Joseph, Montreal.
Johnson, Walter S., Montreal.
Legault, Joseph Louis Lorenzo, Montreal.
McKenna, Francis Ethelbert, Montreal.
Shallow, T. Jack, St. Anne de Bellevue, P.Q.
Shepherd, Simpson James, Calgary, Alta., N.W.T.
Sperber, Marcus Mayer, Montreal.
Stackhouse, Russell T., Lachute, P.Q.

PARTIAL.

Tritt, Sam., Montreal.

THIRD YEAR.

UNDERGRADUATES.

Coulin, James Edward, Montreal.
Duffy, Fabian J., Montreal.
Greenshields, Charles G., Montreal.
Harris, Spencer Lewin Dale, Ottawa, Ont.

Mathieu, A. Papineau, Montreal.
Morin, René, St. Hyacinthe, P.Q.
Robertson, Kenneth George, Sherbrooke, Que.
Stephens, L deK., Montreal.
Tanner, Agenor Henry, Valleyfield, P.Q.
Wallace, Richard P., Coaticook, P.Q.

PARTIAL.

Ainé, Jean, Montreal.

Faculty of Arts.

FIRST YEAR.

UNDERGRADUATES.

(McGill College.)

Archibald, Kenneth, Montreal High School, Montreal, Que.
Auchinleck, Gilbert G., Antigua Grammar School, St. Johns, Antigua, B.W.I.
Ayer, Kenneth R., Abingdon School, Montreal, Westmount, Que.
Baird, George F., Andover Grammar School, Andover, N.B.
Bole, Thomas H., High School, Pembroke, Pembroke, Ont.
Burgess, William H., Chatham Collegiate Institute, Tilbury, Ont.
Cook, Archibald S., Quebec High School, Quebec, P.Q.
Copeland, Fred. O., Randolph High School, Randolph, Vt., U.S.A.
Creswell, Harris J., Lachute Academy, Lachute, P.Q.
Feiczewicz, Louis, Quebec High School, Quebec, P.Q.
Fineberg, Nathan S., Montreal High School, Montreal.
Gale, William H., Ormstown Academy, Ormstown, P.Q.
Gillis, Norman R., Prince of Wales College, Charlottetown, P.E.I., Hartsville, P.E.I.
Gordon, Walter H., Feller Institute, Grande Ligne, P.Q.
Hastings, William R., Montreal High School, Montreal.
Hawkins, Frank E., Quebec High School, Quebec, P.Q.
Isherwood, Percy, Montreal Diocesan Theo. College, Montreal, Que.
Jenkins, Gerald L., Belleville High School, Belleville, Ont.
Johnston, William R., Renfrew Collegiate Institute, Renfrew, Ont.
Kingman, Abner, Montreal High School, Montreal.
Lindsay, Sydenham B., St. John the Evangelist School, Montreal.
*McBurney, Albert, Granby Academy, Sawyerville, P.Q.
McDougall, William R., Ormstown Academy, Tatehurst, Que.
McGougan, Alex. G., Glencoe High School, Glencoe, Ont.
Mackay, Hugh, Rothesay Collegiate School, St. John, N.B.
McPherson, Frank H., Trinity College School, Port Hope, Hamilton, Ont.

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* *Double Course.*

Mavety, LeRoy, Kemptville High School, Montreal, Que.
Meldrum, William B., Ottawa Collegiate Institute, Hull, P.Q.
Morison, William R., Montreal High School, Ormstown, Que.
Paterson, Edward R., Montreal High School, Montreal, Que.
Penny, Arthur G., Abingdon School, Montreal.
Ramsay, George S., Quebec High School, Quebec, P.Q.
Rice, Emery L., Congregational College, Montreal, New Durham, Ont.
Ritchie, Harold H., Rothesay College for Boys, Newcastle, N.B.
Runnells, George W., Granby Academy, Granby, P.Q.
Shanks, Walter R., Fitchburg High School, Fitchburg, Mass.
Shaw, Albert N., Montreal High School, Westmount, Que.
Simpson, Alan C., Abingdon School, Montreal.
Simpson, James C., Brockville, Ont.
Smith, Malcolm L., Westmount Academy, Westmount, Que.
Stewart, Robert C., Quebec High School, Quebec, P.Q.
Stockwell, Ralph F., Danville Academy, Danville, Que.
Tremblay, Ernest, McGill Normal School, Morigeau, Que.
Tyndale, Orville S., Feller Institute, Montreal, Que.

(*Royal Victoria College.*)

Bouchard, Theodora C., Montreal High School for Girls, Montreal, Que.
Boyle, Gertrude M., Glen-Mawr, Toronto, Montreal, Que.
Brown, Theodora W., Montreal High School for Girls, Westmount, Que.
Dolbel, Amy A., Westmount Academy, Westmount, Que.
Henry, Margaret P. M., Orillia Collegiate Institute, Tamworth, Ont.
McClughan, Ellen, Vancouver College, Langley, B.C.
MacDiarmid, Katie, Montreal High School for Girls, Montreal, Que.
Macdonald, Margaret, Collegiate Institute, Peterboro, Peterboro, Ont.
Mackeen, Anna H., Trafalgar Institute, Montreal, Glace Bay, C.B.
Macnaughton, Ariel M., Montreal High School for Girls, Montreal, Que.
Plaisted, Gertrude M., Dunham Ladies' College, Dunham, Que.
Ross, Lilia I., Hamilton Collegiate Institute, Dundas, Ont.
Sauvalle, Germaine H., Montreal High School for Girls, Montreal,
Smillie, Eleanor A., Westmount Academy, Westmount, Que.
Smith, Gertrude E., Lachine Academy, Lachine Locks, Que.
Telfer, Vera M., Westmount Academy, Montreal.
Wisdom, Bessie R., St. John High School, St. John, N.B.
Younger, Marjorie D., Montreal High School for Girls, Montreal.

CONDITIONED STUDENTS.

(*McGill College.*)

Greenshields, Edward J. M., Abingdon School, Montreal.
McGibbon, Philip G., Repton, England, Montreal, Que.
Timberlake, Ralph M., Ottawa Collegiate Institute, Perth, Ont.

(*Royal Victoria College.*)

Moodie, Bethea T., Northfield Seminary, E. Northfield, Mass., Chesterville, Ont.

PARTIAL STUDENTS.

(*McGill College.*)

Argue, Robert F., Stittsville, Ont.
Babington, Fred. C., Ottawa, Ont.
Cummins, Philip M., Magog, Que.
Davey, William J., Belfast, Ireland.
Duncan, James S., Mount Forest, Ont.
Edgell, Geoffrey S., Sherbrooke, Que.
Ekers, Henry A., Montreal, Que.
Fitzpatrick, J. H., New Glasgow, N.S.
Gardiner, Samuel N., Chatham, Ont.
Lindsay, Lionel M., Montreal, Que.
Lomer, Gerald B., Montreal, Que.
Lumsden, Hugh A., Toronto, Ont.
Martin, Arthur J., Ottawa, Ont.
Moore, Alexander W., Ottawa, Ont.
Mundell, John R., Sherbrooke, Que.
Rice, William, Holstein, Ont.
Roach, Joseph E., Gananoque, Ont.
(2) Sharp, Claude Evelyn, Spanish Town, Jamaica.
Stevenson, J. A., Montreal, Que.
(2) Thomson, Joseph O., Montreal, Que.
Vallillee, J. Rupert, Buckingham, Que.
Venables, William R. R., Cookstown, Co. Tyrone, Ireland.

(*Royal Victoria College.*)

Bender, Lilian M., Montreal, Que.
Bignell, Leila F. S., Montreal, Que.
Bridgman, Della M., Montreal, Que.
Brodie, Leah F., Westmount, Que.
(2) Buckley, Margretta M., Montreal, Que.
(2) Clark, Sarah E., Charlestown, N.H., U.S.A.
Craig, Ethel M., Westmount, Que.
Creelman, Marion D., Montreal, Que.
Day, Marjorie, Montreal, Que.
Dixon, Jennie D., Montreal, Que.
Donoghue, Kathleen, Montreal, Que.
Grant, Jessie, Montreal, Que.
Greig, Nettie T., Allan's Corners, Que.
Grier, Helen J. H., Montreal, Que.
Hibbard, Marion E., Farnham, Que.
(2) Hill, Anna K., Delorimier, Que.
McEvers, Veda E., Montreal, Que.
McLeod, Annie, Montreal, Que.
(2) Monroe, Annie Barrows, Meriden, N.H., U.S.A.
Sutherland, Piney, Winchester, Ont.
Thompson, Eileen B., Westmount, Que.
Trenholme, Mabel L., Westmount, Que.
Walker, Margaret L., Westmount, Que.
Weir, Mary B., Westmount, Que.

The figures (2), (3) or (4), prefixed to a name, indicates that the student takes a class in the corresponding year as well as in that where the name is found.

SECOND YEAR.

UNDERGRADUATES.

(McGill College.)

Allan, John A., Huntingdon Academy, Aubrey, Que.
Armstrong, George D., Probationers' Class, Montreal Diocesan College, Ottawa, Ont.
Auld, Frederick M., Prince of Wales College, Charlottetown, P.E.I., Covehead, P.E.I.
Ballon, David H., Montreal High School, Montreal.
Ballon, Isidore, Montreal High School, Montreal.
Bartels, Reginald C., Private Tuition, St. Hyacinthe, Que.
Bates, Fred. W., Probationers' Class, Montreal Diocesan College, Easton's Corners, Ont.
Belyea, John C., Montreal High School, St. John, N.B.
Brooks, Murray G., Indian Head Public School, Indian Head, N.W.T.
Cameron, David A., Huntingdon Academy, Dewittville, Que.
Cattanach, Finlay A., Alexandria (Ont.) High School, North Lancaster, Ont.
Chandler, Edward F., Montreal High School, Montreal.
Cherry, Wilbur R., Woodstock College, Toledo, Ohio, U.S.A.
Cliff, Henry W., Montreal High School, Montreal, Que.
Crutchfield, Charles N., Huntingdon Academy, Huntingdon, Que.
Cushing, Dougall, Montreal High School, Montreal, Que.
Davis, Charles W., Montreal High School, Montreal, Que.
Ellis, Robert W., Vancouver College, Vancouver, B.C.
Garvin, Arthur C., Stanstead Wesleyan College, Odelltown, Que.
Gould, Edwin M. L., Montreal High School, Montreal, Que.
Harrison, Ralph D., Probationers' Class, Montreal Diocesan College, Montreal, Que.
Heward, Chilian G., St. John the Evangelist's School, Montreal, Montreal, Que.
Huntley, Herbert, Prince of Wales College, Charlottetown, P.E.I., Vernon River, P.E.I.
McCann, Walter E., Aylwin, P.Q.
MacDonald, Dalraddy L., Huntingdon Academy, Huntingdon, Que.
McDougall, E. Stuart, Montreal High School, Westmount, Que.
Mackenzie, John M., Prince of Wales College, Charlottetown, P.E.I., Hartsville, P.E.I.
MacMillan, William, Prince of Wales College, Charlottetown, P.E.I., Montague, P.E.I.
Meldrum, Herbert T., Ottawa Collegiate Institute, Hull, Que.
Morison, Hugh G., The High School, St. John, N.B., Ormstown, Que.
Parsons, Howard G., Port Hope High School, Port Hope, Ont.
Penny, E. Goff T., Private Tuition, Montreal, Que.
Pierce, Ira W., Listowel, Ont.
Rider, Ezra B., Montreal High School, Fitch Bay, Que.
Riley, Charles E., Probationers' Class, Montreal Diocesan Theo. College, Montreal, Que.
Silver, Samuel S., Private Tuition, Montreal, Que.
Stafford, Fred. M. A., Montreal, Que.
Steedman, William F., Hutcheson's Boys' Grammar School, Glasgow, Scotland, Montreal, Que.

Swift, Sherman C., Petrolea High School, Petrolea, Ont.
Vincent, Irving, Stanstead Wesleyan College, St. Armand Centre, Que.
*Wilson, George T., Vancouver College, Preparatory Department, Vancouver, B.C.
Wood, Harold W., Montreal High School, St. Johns, Que.

(*Royal Victoria College.*)

Armstrong, Louise F., Miss Symmers and Miss Smith's School, Montreal, Que.
Baylis, Inez M., Montreal High School for Girls, Montreal, Que.
Cheesbrough, Charlotte M., Montreal High School for Girls, Montreal, Que.
Coates, Evelyn, Halifax Ladies' College, Amherst, N.S.
Couture, Louise I., Montreal High School for Girls, Montreal, Que.
Crawford, Emily C., Montreal High School for Girls, Montreal Que,
Eaton, Mary J., Private Tuition, Montreal, Que.
Hayden, Amy J., Westmount Academy, Westmount, Que.
Huxtable, Maggie, Montreal High School for Girls, Montreal, Que.
James, A. Ethel, McGill Normal School, Montreal, Que.
King, Lucile M., Montreal High School for Girls, Montreal, Que.
Kydd, Helen M., Montreal High School for Girls, Montreal, Que.
Macaulay, Esther E., Montreal High School for Girls, Westmount, Que.
Macaulay, Gertrude F., Westmount Academy, Westmount, Que.
Masson, Marian, Ottawa Collegiate Institute, Ottawa, Ont.
Mowatt, Edith M., Montreal High School for Girls, Montreal, Que.
Trench, Nora C., Montreal, Que.
Williams, Clara L., Stanstead Wesleyan College, Knowlton, Que.
Wisdom, Jennie B., The High School, St. John, N.B., St. John, N.B.

PARTIALS.

(*McGill College.*)

Baillie, Archie F., Montreal, Que.
Campbell, Malcolm A., Paisley, Ont.
Cranston, William T., Caledon East, Ont.
Dickson, John M., Mount Forest, Ont.
(3, 4) Featherston, Joseph E., Streetsville, Ont.
Foote, James, Varna, Ont.
(3) Mackay, James, St. David's, Ont.
Sawers, Frederick J., Peterboro, Ont.
(3) Rees, William Garfield, Halifax, N.S.

(*Royal Victoria College.*)

Levinson, Myrtle V., Montreal, Que.
Lyster, Alice G., Montreal, Que.
Stevens, Ruth, Stanstead, Que.

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* *Double Course.*

The figures (2), (3) or (4), prefixed to a name, indicates that the student takes a class in the corresponding year as well as in that where the name is found.

THIRD YEAR.

UNDERGRADUATES.

(*McGill College.*)

Barclay, Gregor, Montreal, Que.
Bridgette, Samuel J., Sawyerville, Que.
Carr, William L., Trout River, Que.
Cousins, George W., Westmount, Que.
Crocker, Stanley J., St. Thomas, Ont.
DeBeck, Edwin K., Alert Bay, B.C.
Drew, John McO., Beech Ridge, Que.
Edwards, William, Cookshire, Que.
Flanders, John A., Rock Island, Que.
Gibb, Robertson W., Westmount, Que.
Hendrey, Andrew W., Liverpool, N.S.
Housser, George E., Portage la Prairie, Man.
Kirsch, Simon, Montreal, Que.
Lewis, David S., Montreal, Que.
Lyman, C. Sydney, Montreal, Que.
*McCallum, John S., Smith's Falls, Ont.
MacLeod, Alexander R., Uigg, P.E.I.
McTaggart, Donald E., Vancouver, B.C.
Marcuse, Otto, Westmount, Que.
Mundie, Gordon S., Westmount, Que.
Naylor, R., Kenneth, Shawville, Que.
Newman, Harry, Montreal, Que.
Nicholson, John C., Lucknow, Ont.
Payne, Chester H., Ottawa, Ont.
Pease, E. Raymond, Montreal, Que.
Peterson, William G., Montreal, Que.
Rogers, David B., Waterford, Ont.
Scott, C. Hope, Montreal, Que.
Shaw, Herbert T., Montreal, Que.
Shearer, James R., Sherbrooke, Que.
Smith, Arthur N., Vancouver, B.C.
Vineberg, Solomon, Sherbrooke, Que.

(*Royal Victoria College.*)

Braidwood, Helen, Westmount, Que.
Clark, Birdena M., Montreal, Que.
Eckhardt, Jessie E., Ridgeville, Ont.
Fraser, Amy B., Montreal, Que.
Fraser, Mabel G., Montreal, Que.
Gillmor, Blanche C., Westmount, Que.
McQueen, Kate H., Vancouver, B.C.
Mowatt, E. Rae, Montreal, Que.
Phelps, Mary G., Eastman, Que.
Rorke, Mabele L., Montreal, Que.
Ryan, Esther L., Burk's Falls, Ont.
Sharp, Florence E., Southfield P.O., Jamaica.
Stanton, R. Gertrude, Montreal, Que.

* *Double Course.*

PARTIALS.

(*McGill College.*)

Cordner, Joseph, Portodown, Ireland.
Hannah, Richard M., Copper Cliff, Ont.
McIlroy, James, Castlewellan, Co. Down, Ireland.
Raymond, Wm. O., St. John, N.B.

(*Royal Victoria College.*)

Baynes, Hilda, Montreal, Que.
Williams, Ethel S., Montreal, Que.

FOURTH YEAR.

UNDERGRADUATES.

(*McGill College.*)

Adams, Claude A., Franklin Centre, Que.
Blanchard, Charles H. S., Winnipeg, Man.
Cameron, Angus W., Montreal, Que.
Carruthers, Christopher, Aylwin, Que.
Chodat, Henry, Duclos, Que.
Colgrove, William G., London, Ont.
Cotton, Thomas F., Cowansville, Que.
Crane, Charles W., Knowlton, Que.
*Cross, C. Ernest, Montreal, Que.
Curtis, Walter E., Milton, P.E.I.
*Downey, James J. C., Brockville, Ont.
Fraser, George A., Montreal, Que.
*Fripp, George D., Montreal, Que.
Graham, John H., Winnipeg, Man.
*Gray, Edwin H., Montreal West, Que.
Halpenny, T. Anson, Bear Brook, Ont.
Howitt, Henry, Guelph, Ont.
Hyde, G. Gordon, Montreal, Que.
Jenkins, Joseph, Montreal, Que.
King, Louis V., Montreal, Que.
*Locke, Ernest E., Westmount, Que.
McFee, M. C. Coll, Montreal, Que.
McMurtry, Rennie O., Montreal, Que.
Ower, John L., Smith's Falls, Ont.
*Rabinovitch, Max, Montreal, Que.
Robinson, Frederick G., St. John, N.B.
Robinson, William W., Granby, Que.
Roy, P. Rufus, East Angus, Que.
Stewart, Thomas S., Montreal, Que.
Stewart, William, Montreal, Que.
*Tannenbaum, David, Montreal, Que.
Tupper, Charles S., Winnipeg, Man.

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* *Double Course.*

(Royal Victoria College.)

Bowman, Nora F. J., Montreal, Que.
Gillean, A. Muriel, Montreal, Que.
Healy, Rose E., Smith's Falls, Ont.
Herbury, Flora E., Montreal, Que.
Hill, Julia M., St. Stephen, N.B.
Hitchcock, Mary A., Compton, Que.
Idler, S. May, Montreal, Que.
Kimber, Victoria C., Montreal, Que.
Lyman, Ruth D., Montreal, Que.
McCoy, M. Isabel, Montreal, Que.
Michaels, Rosebud F., Montreal, Que.
Moule, Frances S., Montreal, Que.
Munn, Laura A., Montreal, Que.
Pearson, Mary F., Halifax, N.S.
Smith, Ella L., St. John, N.B.
Smith, May, Montreal, Que.
Taber, Marion M. D., East Farnham, Que.

PARTIALS.

(McGill College.)

Mackenzie, John D., Inverness, Ont.

(Royal Victoria College.)

Binks, Isobel B., Montreal, Que.
Ferguson, Jennie A., Montreal, Que.
Irving, Barbara, St. Lambert, Que.
James, Ada D., Montreal, Que.
Lyman, Katherine T., Montreal, Que.
Macfarlane, Agnes C., Westmount, Que.
Prendergast, Florence M., Montreal, Que.
Shaw, T. Louise, B.A., Montreal, Que.

GRADUATE STUDENTS.

(McGill College.)

Davidson, Macfarlane B., Ottawa, Ont.
Fee, James E., Farnham, Que.
Hindley, John G., Oustic, Ont.
Jack, Milton, Chateauguay Basin, Que.
Kornfeld, Joseph S., Montreal, Que.
Logan, David C., B.A., Montreal, Que.
McGougan, Edward, Glencoe, Ont.
MacKenzie, Angus D. M., Hartsville, P.E.I.
Mingie, George W., Montreal, Que.
Sheldon, E. W., Cornwall, Ont.

(Royal Victoria College.)

Hadrill, Margaret F., Montreal, Que.
Henry, Alice O. E., Tamworth, Ont.
Lundie, Elizabeth H., Montreal, Que.
MacKenzie, Catherine L., Montreal, Que.
Macleod, Annie L., Glace Bay, C.B.

Faculty of Applied Science.

FIRST YEAR.

UNDERGRADUATES.

Ahern, Walter J., Westmount Academy, Westmount, Que.
Anderson, Sedley C., Dalhousie College, Halifax, N.S.
Archibald, Howard M., Dufferin Grammar School, Brigham, Montreal, Que.
Baird, John B., Methodist College, St. John's, Newfoundland.
Ballantyne, Thomas B., Galt Collegiate Institute, Galt, Ont.
(2) Beaudry, Abel C., McGill College, Montreal, Que.
Bell, Valentine H. G., Kingston, Jamaica.
Brennan, Charles V., Philips' Academy, Andover, N.H., Summerside, P.E.I.
Briegel, Walter, Montreal High School, Montreal, Que.
Bristol, C. F., Harbord Street Collegiate, Toronto, Ottawa, Ont.
Cameron, James S., Pictou Academy, Stellarton, N.S.
Campbell, Edmund E., Prince of Wales College, Charlottetown, P.E.I., Belmont, P.E.I.
(2) Carlyle, Russell W., Woodstock College, Woodstock, Ont.
Carmichael, Henry G., Private Tuition, Montreal, Que.
Carter, Charles H., Bishop's College School, Lennoxville, Que., Los Angeles, Cal., U.S.A.
Chambers, William D., Private Tuition, Ottawa, Ont.
(3) Christie, H. R. M., Bedford Grammar School, England, Slocan City, B.C.
Cowan, Claude W., Ottawa Collegiate Institute, Ottawa, Ont.
D'Aeth, John B., Upper Canada College, Toronto, Ont., Kingston, Jamaica.
Dalton, Arthur T., Vancouver College, Vancouver, B.C.
Davies, Harold C., Ottawa Collegiate Institute, Chelsea, Que.
Davis, Francis M., Stonyhurst College, England, Windsor, Ont.
Dawson, Victor E., Ottawa Collegiate Institute, Ottawa, Ont.
de la Vega, Gonzalo, Mt. St. Louis College, Montreal, Havana, Cuba.
Descarries, Joseph A., Loyola College, Montreal, Lachine, Que.
Dick, William J., Nanaimo High School, Nanaimo, B.C.
Dickson, Garnet H., Westmount Academy, Westmount, Que.
Doran, Edward J., Shortell's Academy, Montreal, Montreal, Que.
Dowswell, H. Royden D., Dutton High School, Dutton, Ont.
Doyle, Philip E., Hawkesbury High School, Hawkesbury, Ont.
Drysdale, Charles W., Montreal High School, Montreal, Que.
(2) Filer, Samuel W., Montreal High School, Montreal, Que.
(2) Forbes, Frederick W., King's College, N.S., Little Harbour, Pictou Co., N.S.
Forbes, John H., Montreal High School, Montreal, Que.
Fox, Charles H., St. John's College, Winnipeg, Man.
(3) Gilmour, Hamilton L., Private Tuition, Ottawa, Ont.
Goodchild, Ralph H., St. Lambert's Academy, St. Lambert, Que.

The figures (2), (3) or (4), prefixed to a name, indicates that the student takes a class in the corresponding year as well as in that where the name is found.

Gooding, Winfield U., The Lodge School, Barbadoes, Stirling, St. Philips, Barbadoes, West Indies.
Gomes, Laurence F., Abingdon School, St. John's, Antigua, B.W.I.
(3) Graham, John R., Ottawa Collegiate Institute, Ottawa, Ont.
Green, Harold P., Brockville Collegiate Institute, Oak Leaf, Ont.
Guillet, George L., Ottawa Collegiate Institute, Lindsay, Ont.
Harris, Harvey W., Potsdam School, Jamaica, Hope Gardens, Kingston, Jamaica.
Hamel, Edouard, Laval University, Montreal, Que.
Hendry, Andrew W., McGill University, Liverpool, N.S.
Herbert, Harry, Ottawa Collegiate Institute, Ottawa, Ont.
Heywood, Edward P., Sherborne School, Dorset, England, Montreal, Que.
Hodge, Charles A., Stanstead Wesleyan College, Birchton, Que.
Irwin, Robert H., Ashbury College, Ottawa, Ont.
Johnston, Harold S., Gananoque High School, Gananoque, Ont.
Jordan, Ernest H., McGill University, Montreal, Que.
Kearney, Graham, Renfrew Collegiate Institute, Renfrew, Ont.
Kennedy, Edward I., Stanstead Wesleyan College, Knowlton, Que.
Kennedy, Henry C., Woodstock Baptist College, Owen Sound, Ont.
Kerr, Archibald, Dutton High School, Dutton, Ont.
Letourneau, Marius, Catholic High School, Montreal, Que.
Lighthall, Abram, Vankleek Hill Collegiate Institute, Vankleek Hill, Ont.
Lundy, T. H. D., Brantford Collegiate Institute, Brantford, Ont.
Manny, David, St. Mary's College, Montreal, Beauharnois, Que.
(2) Mather, William A., Rat Portage, Ont.
McBeath, D. Blair, Prince of Wales College, Charlottetown, P.E.I., Marshfield, P.E.I.
McCallum, Frank A., Smith's Falls High School, Smith's Falls, Ont.
McDougall, J. Cecil, Montreal High School, Montreal, Que.
McGuire, Gordon, Shortell's Academy, Montreal, Westmount, Que.
Meyerstein, William C., Abingdon School, Montreal, London, Eng.
(2) Millen, Walter H., Ashbury College, Hull, Que.
Mills, John R., Ottawa Collegiate Institute, Ottawa, Ont.
Mohan, Richard J., Brockville Collegiate Institute, Brockville, Ont.
Montague, T. Mortimer, Galt Collegiate Institute, Galt, Ont.
(2) Montgomery, Edgar G., New Richmond, Que.
Moore, William J., Mount St. Louis Institute, Montreal, Hyde Park, Vt., U.S.A.
Morrin, Arthur D., Lachute Academy, Beech Ridge, Que.
Murphy, William H., Trinity College School, Rochester, N.Y., U.S.A.
Nicolls, Jasper H. H., Montreal High School, Montreal, Que.
Owden, John S., Potsdam School, Jamaica, Santa Cruz, Jamaica.
Paquet, Alfred, Hawkesbury High School, Hawkesbury, Ont.
Parham, John B., Huntingdon Academy, Outremont, Que.
Parker, Joseph E., Abingdon School, Montreal.
Pattullo, Andrew, Woodstock Baptist College, Woodstock, Ont.
Pitts, Gordon McL., Ottawa Collegiate Institute, Ottawa, Ont.

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Pratt, Austin C., Ashbury College, Ottawa, Ont.
Raphael, Gordon S., Ashbury College, Ottawa, Ont.
Richardson, Charles E., St. Mary's Collegiate Institute, St. Mary's, Ont.
Robertson, Gilbert ,Brantford Collegiate Institute, Brantford, Ont.
Rogers, Alvah B., Pictou Academy, Stellarton, N.S.
Ross, Alan H., Dover College, England, Wimbleton, Surrey, Eng.
Ross, Charles C., Private Tuition, Hintonburg, Ont.
Ross, Cecil M., Ottawa Collegiate Institute, Ottawa, Ont.
Ross, Donald, Edmonton High School, Edmonton, Alta.
Ruttan, Frank N., High School, Winnipeg, Man., Armstrong's Point, Winnipeg, Man.
Saunders, Charles W. M., Bedford Grammar School, Kingston, Jamaica.
Scott, William R., Napanee Collegiate Institute, Napanee, Ont.
Shanks, Daniel A., Montreal High School, Howick, Que.
Smith, Randolph R., Montreal High School, Montreal, Que.
Spencer, Walter H. Montreal High School, Montreal, Que.
Stitt, Ormond M., Ottawa Collegiate Institute, Ottawa, Ont.
Trenholme, George A., Montreal High School, Montreal, Que.
Turnbull, Kenneth, McGill University, Montreal, Que.
Vipond, William S., Montreal High School, Montreal, Que.
Whitcher, Wilfrid C. W., Ashbury College, Ottawa, Ont.
Whitton, Corbett F., Loyola College, Montreal, Hamilton, Ont.
Whyte, Herbert B., Ottawa Collegiate Institute, Ottawa, Ont.
Wilson, Alexander, Abingdon School, Montreal, Que.
Winslow, Edward S., Upper Canada College, Toronto, Stratford, Ont.
Wood, A. C., Westmount Academy, Westmount, Que.
Wood, James R., Woodstock College, Peterboro, Ont.
Younger, Harry R., Ottawa Collegiate Institute, Ottawa, Ont.

CONDITIONED STUDENTS.

Archibald, David W., Brookline High School, North Sydney, C.B.
Ayre, Charles R., Methodist College, St. John's, Newfoundland.
Carson, William J., Meaford High School, Meaford, Ont.
Fielding, Henry C., Dalhousie College, Halifax, Ottawa, Ont.
Gosselin, Albert, Abingdon School, Montreal, N. D. de Stanbridge, Que.
Grahame, Dallas F., St. John's School, Montreal.
(2) Halliday, Clifford, Lachute Academy, Buckingham, Que.
Hattie, James B., Truro Academy, Caledonia, N.S.
Melhuish, Paul, St. Paul's School, W. Kensington, London, Eng., East Sheen, London, Eng.
O'Keefe, Frank, Shortell's Academy, Montreal, Montreal, Que.
Phillips, Hobart W., Abingdon School, Oskaloosa, Iowa.
(2) Strumbert J. Aubrey, Montreal, Que.
Taylor, Herbert R., St. John High School, St. John, N.B.
Tessier, J. des R., Laval Normal School, Quebec, Que.
Thompson, Lyle Frost,, Montreal High School, Montreal, Que.
Virtue, Matthew, Woodstock College, Woodstock, Ont.

The figure (2) or (3), prefixed to the name indicates that the student takes a class in the corresponding year as well as in that where the name is found.

PARTIAL STUDENTS.

Babington, Frederick C., Ottawa Ont.
Crocker, Stanley J., St. Thomas, Ont.
Cummins, Philip M., Magog, Que.
(2, 3, 4) Dunning, Frank G., Stoodleigh Court, North Devon, Eng.
Edgell, Geoffrey S., Sherbrooke, Que.
Ives, H. Douglas, Montreal, Que.
Lomer, Gerald B., Montreal, Que.
Lumsden, Hugh A., Toronto, Ont.
Moore, Alexander W., Ottawa, Ont.
(2) Morrison, Albert G., Woodstock, Ont.
Pease, E. Raymond, Montreal, Que.
(2) Reddin, Edwin O., Charlottetown, P.E.I.
(2) Reddin, Ivan Y., Charlottetown, P.E.I.
(2) Seaborn, A. Vivian, London, Ont.
Vallillee, J. Rupert, Buckingham, Que.
Venables, William R. B., Cookstown, Co. Tyrone, Ireland.
Viau, Delbe, Montreal, Que.

SECOND YEAR.

Allan, Marshall G., Perth, Ont.
Anderson, Lewis B., Lunenburg, N.S.
Archibald, E. M. Brenton, Halifax, N.S.
(3) Barclay, Charles H., St. Paul, Minn., U.S.A.
Barclay, Malcolm Drummond, Montreal, Que.
(3) Baylis, Harold A., Montreal, Que.
Beaton, Norman H., St. Catharines, Ont.
Beckwith, Albert H., Amherst, N.S.
(1) Bell, Winthrop P., Halifax, N.S.
Black, H. Johnson, Amherst, N.S.
Broidy, Jacob I., Springhill, N.S.
Brooks, Charles E., Grafton, Ont.
Brown, Lindsay O., Metcalfe, Ont.
Brown, S. Barton, Ottawa, Ont.
(3) Brown, W. Gordon, Montreal, Que.
(3) Brown, William G. B., Quebec, Que.
Callaghan, John C., Hamilton, Ont.
(1) Carney, M. James, Halifax, N.S.
Conway, Ernest J., Ladysmith, B.C.
Daly, William J., Westmount, Que.
Davis, George H., Gananoque, Ont.
(3) Dougherty, John J., Sherbrooke, Que.
(1) *Downey, James J. C., Brockville, Ont.
Drummond, George D., Midland, Ont.
Elliott, Percy H., Saskatoon, Saskatchewan, N.W.T.
Ellis, Robert C., O'Leary, P.E.I.
Engel, Nathan L., Montreal, Que.
Estey, James R., Moncton, N.B.

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* *Double Course.*

Foster, H. Stuart, Montreal, Que.
Frith, George H., Cumming's Bridge, Ont.
Gamble, Clarke W., Victoria, B.C.
Griffin, Frank F., Winnipeg, Man.
Hall, Norman M., Cornwall, Ont.
Hargrave, William H., Medicine Hat, N.W.T.
Haskell, Ludlow St. J., Montreal, Que.
Haughton, Harold M., Kingston, Jamaica, B.W.I.
Hay, Norman K., Ottawa, Ont.
Hayes, Albert O., Granby, Que.
Hepburn, Maurice G., Dunmore, Cullompton, England.
Holloway, Edward S., Montreal, Que.
Howe, John P., Pembroke, Ont.
Kenyon, Lot A., Warden, Que.
Killam, Lawrence, Yarmouth, N.S.
Kingston, Lawrence B., Ottawa, Ont.
Lamb, Henry M., Montreal, Que.
(3) Lathe, Frank E., Lacolle, Que.
Little, William D., Morden, Man.
Lynch, Francis C. C., Carillon, Que.
Martin George E., Moncton, N.B.
Maxwell, Laurence G., St. Mary's, Ont.
McCallum, George H., Smith's Falls, Ont.
Macaulay, Rupert M., Scotstown, Que.
McCuaig, D. Rykert, Montreal, Que.
McCuaig, Stuart, Montreal, Que.
Macdonald, R. Ross, Hamilton, Ont.
Macdonald, W. M. Bell, Rammerscales, Lockerbie, Scotland.
†MacKay, George W., New Glasgow, N.S.
MacKay, Robert M., New Glasgow, N.S.
McKinnon, Hugh D., Finch, Ont.
McKinnon, John A., Finch, Ont.
Miller, Harry B., Montreal, Que.
Morrow, Hugh M., Halifax, N.S.
Moyse, John J., Montreal, Que.
Mulligan, William H., Chapleau, Ont.
Mulock, Redford H., Winnipeg, Man
Munn, D., Walter, Montreal, Que.
(3) Norton, Thomas J., Montreal, Que.
Otty, George N., Hampton, N.B.
Patterson, Raymond H., Melbourne, Australia.
(1) Paulsen, Hans K., Copenhagen, Denmark.
Perry, Kenneth M., Regina, Assa.
Pringle, Angus F., Belleville, Ont.
Racey, Percy W., Lennoxville, Que.
Renaud, Bruce G., Montreal, Que.
Richards, Edward L., Port Antonio, Jamaica.
Riddell, Arthur G., Hamilton, Ont.
Robb, Frederick G., Montreal, Que.
Rogers, Henry G., Peterboro, Ont.
Ryan, Frederick G., St. Lambert, Que.

The figures (2), (3) or (4), prefixed to a name, indicates that the student takes a class in the corresponding year as well as in that where the name is found.

† *Conditioned.*

Scott, Reginald T. M., Woodstock, Ont.
Scovil, Harry H., Hampton, N.B.
Seely, Roy A., Fredericton, N.B.
Shearer, George W., Montreal, Que.
(3) Slavin, Reginald V., Deseronto, Ont.
Spafford, Arthur L., Lennoxville, Que.
Sproule, Gordon, St. Lambert, Que.
Trimingham, James H., Hamilton, Bermuda.
Wark, Samuel D., Langley Prairie, B.C.
Werner, Sheldon W., Elmira, Ont.
Westland, Clarence R., Wyoming, Ont.
Wheaton, Isaac, Point Midgic, N.B.
Whitcomb, F. Olin, Smith's Falls, Ont.
Williams, Frederick H., East Sherbrooke, Que.
Wilson, William S., Niagara Falls South, Ont.
Woodyatt, James B., Brantford, Ont.
Wright, George R., Salisbury, N.B.
Zimmerman, Herbert G., Hamilton, Ont.

PARTIAL STUDENTS.

Barker, Joseph, Omaha, Nebraska.
(3) Edwards, Cameron McP., Ottawa, Ont.
(3, 4) Hitchcock, Humphrey K., Bootham, York, Eng.
(3) Richards, William A., Pembroke, Ont.
(3, 4) Worswick, Edgar Thomas, Guelph, Ont.

THIRD YEAR.

Anderson, Frederic W., Ottawa, Ont.
Anglin, J. Penrose, Montreal.
Bain, James W. L., Montreal, Que.
(2) Barrington, Frederick H., Waterloo, Que.
Batchelder, Charles K., Newport, Vt., U.S.A.
Beaubien, James G., Outremont, Que.
Benedict, Elmore M., Mount Vernon, Ont.
Black, Douglas E., Montreal, Que.
Blackader, Gordon H., Montreal, Que.
Boyd, Alfred M. S., Cote des Neiges, Que.
Brady, James C., Victoria, B.C.
Brennan, George E., Ottawa, Ont.
Brunner, Godfrey H., Hayton, Liverpool, Eng.
Burnett, Archibald, Montreal.
(2) Budden, Harry G., Montreal, Que.
Cardew, John H. (B.Sc.), Rangoon, Burma.
Cattanach, Frederick W. C., Newport, Vt., U.S.A.
(2) Christie, Clarence V., Halifax, N.S.
Churchill, Cecil, Hantsport, N.S.
Clawson, Ernest E., St. John, N.B.
Cole, G. Edwards, Westmount, Que.
Cole, L. Heber, Montreal, Que.
Corrigan, Thomas L., Brockville, Ont.
Cowen, Reginald P., Dalston, Cumberland, Eng.
Cram, Alexander S., Smith's Falls, Ont.

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Davidson, Thomas R., Montreal, Que.
Dickenson, John G., New York,, N.Y.
Durkee, Pearl W., Digby, N.S.
Durland, Royden K., Yarmouth, N.S.
Emmerson, Henry R., Dorchester, N.B.
Ewens, W. Sydney, Owen Sound, Ont.
Forbes, John McN., Bonavista, Newfoundland.
Gray, Alexander, Edinburgh, Scotland.
Gurd, A. Douglas, Montreal, Que.
Hadley, Henry, Montreal, Que.
(2) Hall, Gerald R., Peterboro, Ont.
Harding, Winthrop K., Derby Line, Vt., U.S.A.
Harvie, James, Westmount, Que.
Harvie, Robert, Westmount, Que.
Hibbard, Melville L., Farnham, Que.
Higgins, B. Howard, London, Ont.
Howell, Edgar N., Westmount, Que.
Jackson, Maunsell B., Toronto, Ont.
Jones, Andrew U., St. John, N.B.
Kirkpatrick, Everett C., Montreal West, Que.
Lea, William S., Victoria, P.E.I.
Loudon, Andrew C., Ottawa, Ont.
(2) McConkey, Thomas C., Guelph, Ont.
McCuaig, G. Eric, Montreal, Que.
McLachlan, D. William, Lochaber, Que.
McMeekin, Albert, Bright, Ont.
Macnab, John J., Elsmore, Ont.
Mudge, Reginald, Montreal, Que.
Newton, Stephen G., Drummondsville, Que.
Pedley, Norman F., Montreal, Que.
Piers, E. O. Temple, Wolfville, N.S.
Pinch, Harry H., Owen Sound, Ont.
Pippy, G. Frederick, Springhill, N.S.
Presner, Joseph, Montreal, Que.
Purdy, James DeL., Spring Hill, N.S.
Ritchie, A. Bruce, Halifax, N.S.
Robertson, Arthur F., Montreal, Que.
Ross, Daniel H., London, Ont.
Ryan, John H., Prescott, Ont.
Sharp, A. Lester, Summerside, P.E.I.
Shorey, Harold E., Montreal, Que.
Slater, Nicholas J., Ottawa, Ont.
Taylor, Alan H., Ottawa, Ont.
Thomas, Herbert P., North Brighton, Victoria, Australia.
Tupper, Frederick McD., Truro, N.S.
Turley, Edward J., Frankford, Ont.
Walker, Cecil W., Kensington, P.E.I.
Wickware, Francis G., Easton's Corners, Ont.
Wilson, Thomas A., Waverley, N.S.
Winter, Elliot E., Georgetown, British Guiana.
Young, Horace G., Osnabruck Centre, Ont.

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FOURTH YEAR.

Archibald, Hiram H., Harbour Grace, Nfld.
Atkinson, M. Brodie (B.Sc.), Saratoga, Santa Clara Co., Cal.
Bedwell, Charles F., Columbus, Ohio.
Blanchet, Guy H., Ottawa, Ont.
Boyle, Robert W., Carbonear, Nfld.
Bowness, Edward W., Kensington, P.E.I.
Bray, Raymond P., Campbellton, N.B.
Burpee, Lockwood, Gibson, N.B.
Campbell, John A., Cheltenham, Ont.
Cockshutt, Harvey W., Brantford, Ont.
Cropper, William C. McD., Kingston, St. Vincent, B.W.I.
Cunha, Stanley, Kingston, Jamaica.
Drinkwater, Kenneth E., Montreal, Que.
Findlay, Delmer C., Danville, Que.
Forbes, Harry L., Waverley, N.S.
Fyshe, Thomas M., Montreal, Que.
Gillies, George A., Carleton Place, Ont.
Glassco, Gordon B., Hamilton, Ont.
Hamilton, Alfred M., Westmount, Que.
Hamilton, Wilfred, Montreal, Que.
Harris, A. Dale, Ottawa, Ont.
Healy, Frederick E., Picton, Ont.
Hogan, John, Westmount, Que.
Idsardi, Harold, St. Thomas, Ont.
Jewett, F. Coburn, Sheffield Academy, N.B.
Johnstone, George A., Rednersville, Ont.
Joseph, A. Pinto, Quebec, Que.
Jost, E. Burton, Guysboro, N.S.
Kydd, George, Montreal, Que.
Leonard, E. Ibbotson, London, Ont.
Martin, Edward N., York, Haldimand Co., Ont.
MacCarthy, Arthur K., Ottawa, Ont.
MacDermot, Sidney G. F., Gordon Town, Jamaica.
MacDougall, Clarence H., South Maitland, N.S.
McLean, Donald, Campbellton, N.B.
McLeish, Ian, Montreal, Que.
MacMillen, Harry H., Alberry Plains, P.E.I.
Miner, R. Herbert, Cowansville, Que.
Mundy, Oswald A., Hamilton, Ont.
Piché, Ernest A., Montreal, Que.
Price, H. Lawrence, Quebec, Que.
Putnam, Alfred A., Halifax, N.S.
Redpath, William, Montreal, Que.
Ross, Walter G., Port Perry, Ont.
Scouler, Gavin T., Montreal, Que.
Sharpe, George P., Agassiz, B.C.
Sutherland, Charles H., New Glasgow, N.S.
Turnbull, Harvard, Montreal, Que.
Weagant, Roy A., Derby Line, Vt., U.S.A.
Wheaton, H. Ashley, Petitcodiac, N.B.
Willard, Charles C., Morrisburg, Ont.
Wright, Clifton H., Barbadoes, B.W.I.

SPECIAL STUDENT.

Drake, Francis Winswood, Crediton, Devon, England.

GRADUATE STUDENTS.

Cardew, John H., B.Sc., Rangoon, Burma.
Chaplin, Charles J., B.Sc., Westmount, Que.
Cole, George H., B.Sc., Detroit, Mich.
Grice, J. Hugh, B.Sc., Bootle, Cumberland, Eng.
Johnson, Frederick M. G., B.Sc., Montreal, Que.
McPhee, James M., B.Sc., Lock Katrine, N.S.

Faculty of Medicine.

FIRST YEAR.

UNDERGRADUATES.

Allen, John Anson Lorne, Hallville, Ont.
Allen, Kenneth Watson, St. John, N.B.
Allen, Oscar James McCally, Bayfield, N.B.
Arbuckle, John William, Summerside, P.E.I.
Arton, Ogilvie A., Bermuda.
Baldwin, William James, A.B., Ogdensburg, N.Y., U.S.A.
Barry, Joseph Leonard, Morrisburg, Ont.
Bennett, Samuel Jackson, Waterloo, Que.
Black, James Roy, Oxford, N.S.
Bleasdell, William Alexander, Fernie, B.C.
Cameron, George Lynch, Mount Albert, Ont.
Campbell, Donald Grant, B.A., Montreal, Que.
Campbell, John DeL., Arnprior, Ont.
Carnell, Arthur Henry, St. John's, Nfld.
Carr, James B., B.A., Campbellton, N.B.
Chipman, Richard Leveratt, M.A., Kentville, N.S.
Churchill, Lewis Piers, Lockeport, N.S.
Clarke, James Christopher, B.A., Nelson, B.C.
Craig, Delmur Allan, Kemptville, Ont.
*Cross, Carleton Ernest, Montreal, Que.
Daigneau, Paul Luke, Waterloo, Que.
Davis, Daniel Wade, Brockville, Ont.
Demers, Francois, Shawinigan Falls, Que.
Dewar, Roderick Donald, Glen Sanfield, Ont.
DeWitt, Connel Edward A., B.A., Wolfville, N.S.
Dexter, Roderick Besnard, B.A., Wolfville, N.S.
Donahoe, Robert Austin, Roseneath, P.E.I.
Donahue, Hugh Francis, Leominster, Mass., U.S.A.
Drury, Walker Herbert, Toronto, Ont.

* *Double Course.*

Dunnett, Henry Watters, Ottawa, Ont.
Ewing, William Theodore, Hawkesbury, Ont.
Fenton, George Sebright, Ottawa, Ont.
Foster, Lowell Shields, Hillsboro, N.B.
Freedman, Abraham, Montreal, Que.
Gardiner, Alfred Ernest, McAdam, N.B.
Gilmour, William Norman, Brockville, Ont.
Goodwin, Burton Elliot, Lorneville, N.S.
Grady, Anthony Bonaventure, Clinton, Mass., U.S.A.
Gwyn, Charles Campbell, Dundas, Ont.
Holbrook, Charles Edgar, Ogdensburg, N.Y.
Hunter, William Bruce, Vanceboro, Me., U.S.A.
Jenkins, Willard Miles, Downeyville, N.B.
Kaine, William Joseph, B.A., Brattleboro, Vt., U.S.A.
Kelley, John William, Detroit, Mich., U.S.A.
Kennedy, Alan Hugh Neville, Macleod, N.W.T.
Kirby, William Palmer Powers, B.A., Gagetown, N.B.
Lees, Frederick William, Fallbrook, Ont.
London, Jepson Fairweather, Wickham, N.B.
Lovering, James Edward, Coldwater, Ont.
Lynch, John George Brooks, Almonte, Ont.
MacDonell, Donald Francis, B.A., Port Hood, N.S.
MacLean, Arthur Smith, Seaforth, Ont.
McBride, Walter Patrick, Central Bedeque, P.E.I.
*McBurney, Albert, Sawyerville, Que.
*McCallum, John Sangster, Smith's Falls, Ont.
McCordick, Alexander Howard, Richmond, Ont.
McCrae, George Palmer, Wickham, N.B.
McDonald, Ronald Hugh, North Bedeque, P.E.I.
MacGillis, Angus Finlay, Bridge End, Ont.
McGrath, Joseph P., B.L., Tignish, P.E.I.
McMillan, William Joseph Parnell, Clermont, P.E.I.
Martin, Arthur Alvin, Fingal, Ont.
Morin, Joseph Hector Gaston, St. Hyacinthe, Que.
Mulgrew, Thomas Bernard, Clinton, Mass., U.S.A.
Murphy, Giles Brown, B.A., Brockville, Ont.
Nagle, Francis Willard, Montreal, Que.
Ortenberg, Samuel, Quebec, Que.
Powell, Ralph Edmund, B.A., Sackville, N.B.
Read, George Carruthers, B.A., Summerside, P.E.I.
Read, Edward Samuel, B.A., Montreal, Que.
Robinson, George, Pembroke, N.H., U.S.A.
Rochelean, Walter Claver, B.A., Noonsocket, R.I., U.S.A.
Rowell, John Spaulding, Montreal, Que.
Shanks, George, B.A., Howick, Que.
Shewan, Douglas Robert, Westmount, Que.
Simpson, James Starr, Prescott, Ont.
Speer, Robert Brandon, Danville, Que.
Stewart, Alexander, Ormond, Ont.
Tanton, Edwin Thomas, St. Eleanor's P.E.I.
Taylor, Thomas Harold, Cumberland Mills, Que.
Thomas, Morris William, Victoria, B.C.
Tolan, Maurice Emmett, B.L., Montreal, Que.

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* *Double Course.*

Townsend, Fred. Albert, Toronto, Ont.
Tracy, William L., B.A., Hartland, N.B.
Walsh, John Parnell, B.A., Quebec, Que.
Waugh, Oliver Sayles, Westmount, Que.
*Wilson, George Thomas, Vancouver, B.C.
Wilson, Karl Miller, Madoc, Ont.

CONDITIONED STUDENTS.

Bonness, Edmund John, St. Stephen, N.B.
Clarke, Thomas Lisle Evelyn, Toronto, Ont.
Cox, Charles Gordon, Hull, Que.
Crawford, John W., Courtenay, B.C.
Fraser, Lewis Hayes, Truro, N.S.
Kaufmann, Joseph, Montreal, Que.
Patterson, John Harwood, Almonte, Ont.
Stinson, Guy Donald, Montreal, Que.

PARTIAL STUDENTS.

Lindsay, Lionel Mitcheson, Montreal, Que.
McGrath, Maurice James, Ogdensburg, N.Y., U.S.A.
Manning, Gerald Miller, Bridgetown, Barbadoes, B.W.I.
Martin, Arthur Alvin, Fingal, Ont.
Roche, John George, Lexington, Ky., U.S.A.
Sharp, Claude E., Jamaica.
Ship, Abraham Phillip, Montreal, Que.
Soley, Lawson Armstrong, Spring Hill, N.S.

SECOND YEAR.

UNDERGRADUATES.

Adcock, John Paul, Bath, England.
Arthur, James Ross, Perth, Ont.
Baird, Walter Stewart, Lucknow, Ont.
Bechtel, Arthur Daniel, Victoria, B.C.
Benvie, Robert Maclean, Salt Springs, N.S.
Bernstein, David H., Montreal, Que.
Blanchard, Harold Blake, Mallorytown, Ont.
Bray, Dallas Gilbert, B.A., Sherbrooke, Que.
Brydone-Jack, Frederick William, Vancouver, B.C.
Clarke, Frederick Clarence, Barbadoes, W.I.
Coborn, Josiah Newton, Robinson, Ont.
Covey, Herman Walter, Everett, Mass., U.S.A.
Davis, Stephen, Montreal, Que.
Denovan, Botsford, Montreal, Que.
Dixon, John Albert, Almonte, Ont.
Edwards, William Ferdinand, Bishop's Mills, Ont.
Eggert, Charles Albert, Vancouver, B.C.
Elliott, Milton Huit, Prescott, Ont.

* *Double Course.*

Enright, William Edward, M.A., Sherbrooke, Que.
Farris, Hugh Allan, White's Cove, N.B.
Fraser, Simon Bothwell, Richmond, Que.
Gabie, William Gardner, Kazabazua, Que.
Girvan, Robert Goldie, Rexton, N.B.
Graham, Douglas William, Arundel, Que.
*Gray, Edwin Herbert, Montreal West, Que.
Gray, William Everett, Campbelltown, N.B.
Grier, Reginald Theophilus, Priceville, Ont.
Harry, Archippus Cecil, Kingston, Jamaica.
Hawkins, Zadock, Sussex, N.B.
Healy, James J., Smith's Falls, Ont.
Hill, Albert Lyon, A.B., Derry, N.H., U.S.A.
Hils, Oswald Herman, B.L., Woonsocket, R.I., U.S.A.
Holman, William Ludlow, B.A., Summerside, P.E.I.
Johnson, Arthur Livingstone, B.A., Windsor, N.S.
Kean, Samuel Garfield, Brookfield, Nfld.
Keay, Thomas, New Glasgow, N.S.
Lake, Walter E., Ridgetown, Ont.
Landry, Arthur Raymond, Dorchester, N.B.
Lannin, Geo. Edward Jurben, South Mountain, Ont.
*Locke, Ernest Ewen, Westmount, Que.
Logie, Fred. George, Chatham, N.B.
MacLachlan, Wm. Watt Graham, Guelph, Ont.
MacNab, Norman A., Montreal, Que.
McCann, James Henry, South Farmingham, Mass., U.S.A.
McCormick, Alexander Stearns, Westmount, Que.
McCowen, Gerald Roche, St. John's Nfld.
McLennan, Alexander Livingstone, B.A., Lancaster, Ont.
McNaughton, Duncan Alex., Finch, Ont.
Morgan, James Douglas, B.A., Montreal, Que.
Muir, David Holmes, Jr., Truro, N.S.
Oulton, Merville Allen, B.A., Jolicure, N.B.
Peltier, Henry George, Fort William, Ont.
Pennie, Laurie Thomas W., New Germany, N.S.
Peters, Henry Le Baron, B.A., St. John, N.B.
Porter, James Franklin Selleck, Powasson, Ont.
Quinn, Frank Patrick, Ottawa, Ont.
*Rabinovitch, Max, Montreal, Que.
Robinson, Robert Charles, Winchester, Ont.
Rodrigues, Emanuel Theophilus, St. Kitts, W.I.
Ross, Colin Eric, Westmount, Que.
Rublee, Orson Elroy, B.A., North Hatley, Que.
Sawyer, Carl Dore, B.A., Lewiston, Me., U.S.A.
Shankel, Fred. Raymond, B.A., Hubbard's Cove, N.S.
Shirreffs, Heber Simon, Clarence, Ont.
Sinclair, George William, Goshen, N.S.
Sparks, John James, St. John's, Nfld.
Stein, Seymour Finkel, Kemptville, Ont.
Stephens, George Findlay, Winnipeg, Man.
Stevenson, Arthur B., New Glasgow, P.E.I.
Sutherland, Robert Hiram, B.A., River John, N.S.
*Tannenbaum, David, Montreal, Que.
Taylor, George Oscar, Hillsboro, N.B.

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* *Double Course.*

Thomas, Frank Henry, B.A., Somerset, N.S.
Thomson, George Dornin, Montreal, Que.
Thomson, James W., Mattawa, Ont.
Trufant, Lester Hall, A.B., Auburn, Me., U.S.A.
Vesey, Eustace Morton, Little York, P.E.I.
Waddell, Jerrold Ross., Chatham, Ont.
Waissman, Mark, Montreal, Que.
Wallace, Carl Tufts, Eureka, Cal., U.S.A.
Wallace, Irwin, Belleville, Ont.
Whitelaw, William Albert, Meaford, Ont.
Wilson, Murray James, Hamilton, Ont.
Wolff, Edward Kenneth, B.A., Hamilton, Bermuda.
Woodrow, James Burgess, Beaconsfield, Ont.
Wright, Robert Percy, Montreal, Que.

PARTIAL STUDENT.

McKay, William Henry, Ottawa, Ont.

THIRD YEAR.

UNDERGRADUATES.

Allen, Hanson Courtenay Bliss, Cape Tormentine, N.B.
Bayley, Alexander H., Bridgetown, Barbadoes, B.W.I.
Bonelli, Vincent, Jr., Ste. Agathe des Monts, Que.
Brown, Gordon Thorburn, Danville, Que.
Budyk, Jacob Simon, Montreal, Que.
Burke, George H., Ogdensburg, N.Y., U.S.A.
Callbeck, Albert DesBrisay, Tryon, P.E.I.
Chandler, Arthur B., Montreal, Que.
Christie, Hugh H., Martintown, Ont.
Crowe, Henry S., B.A., Central Onslow, N.S.
Dearborn, Henry F., Malden, Mass., U.S.A.
Donnelly, James H., Iroquois, Ont.
Fairie, James Arthur, Montreal, Que.
Field, Burton R., Port Elgin, N.B.
Flegg, Robert F., Ottawa, Ont.
Forbes, Arthur Edward Grant, Little Harbor, N.S.
Fraser, David R., Montague Bridge, P.E.I.
Fraser, Thomas B., Liverpool, N.S.
*Fripp, George D., Montreal, Que.
Gillies, George E., Teeswater, Ont.
Gourlay, Henry B., Ph.B., Montreal, Que.
Green, Thomas B., B.A., Virden, Man.
Gross, Charles Joseph, Montreal, Que.
Groves, Osler M., Carp, Ont.
Gurd, Fraser B., B.A., Montreal, Que.
Hackett, John Francis, B.A., Meriden, Conn., U.S.A.
Hammond, James Felton, Ironside, Que.
Hand, William Thomas, Montreal, Que.
Hardy, Alburne N., Allendale, N.S.
Henderson, Smith, Ottawa, Ont.

* *Double Course.*

Hill, Richard C., M.D. (Cincinnatti Coll. of Med and Surgery), Great Falls, Montana.
Hillman, Oliver S., Hamilton, Ont.
Holden, Charles Patrick, St. John, N.B.
Hollbrook, Robert E., Boissevain, Man.
Howlett, George P., Ottawa, Ont.
Hunter, Archibald W., Durham, Ont.
Hunter, Joseph Douglas, Victoria, B.C.
Hunter, Thomas V., Florenceville, N.B.
Huycke, Austin H., Warkworth, Ont.
Johnson, Brougham F., Midland, N.B.
Joughins, James Louis, Moncton, N.B.
Keddy, Owen B., B.A., Milton, N.S.
Kelly, Arthur E., Meaford, Ont.
Kerfoot, Herbert W., Smith's Falls, Ont.
Kinloch, Charles A., Martintown, Ont.
Layton, James Smith, B.A., Truro, N.S.
Lindsay, Edwin A., B.A., Calgary, Alta., N.W.T.
Lomer, Theodore A., B.A., Montreal, Que.
Lyon, George R. D., Ottawa, Ont.
MacArthur, Clarence O., Summerside, P.E.I.
MacArthur, Reginald S., Summerside, P.E.I.
MacCallum, John Duncan Guy, Montreal, Que.
MacDonald, Purdy A., Alma, N.B.
MacLeod, John M., Quincy, Mass., U.S.A.
McDiarmid, James S., B.Sc., Ingersoll, Ont.
McDonald, John N., Shelburne, N.S.
McDougald, Wilfred Laurier, Cornwall, Ont.
McEwen, Edwin Howard, New Westminster, B.C.
McMillan, John A., Finch, Ont.
McNaughton, George K., B.A., Black River, N.B.
McPhee, Thomas Judson, Courtenay, B.C.
Mabee, Oliver R., Ph.B., Vittoria, Ont.
Mair, William Lewis, Clinton, Ont.
Malcolm, Donald C., St. John, N.B.
Michaud, Joseph Napoleon, Campbellton, N.B.
Monahan, Richard J., Montreal, Que.
Morgenstern, Adolph, New York, N.Y., U.S.A.
Muir, Walter L., B.A., Truro, N.S.
Munroe, Alex. R., Woodstock, Ont.
Munroe, Frederick D., Moose Creek, Ont.
Nathan, David, Montreal, Que.
Noble, Ermy Courser, Randolph, Vt., U.S.A.
Parsons, William H., Harbour Grace, Nfld.
Patterson, William J., B.A., Moncton, N.B.
Payne, Gerald A. L., Montreal, Que.
Peate, Gilbert B., Andover, N.B.
Raftery, Charles Raymond, Montreal, Que.
Ralph, Albert J., Ph.B., Montreal, Que.
Risher, Frank Osborn, B.A., Dravosburg, Pa., U.S.A.
Ritchie, Charles A., B.A., Winnipeg, Man.
Robbins, Evelyn Edwin, Halifax, N.S.
Rothwell, Oswald E., B.A., Regina, N.W.T.
Scott, Walter H., Edmonton, N.W.T.
Shaw, Robert McL., B.A., Penobsquis, N.B.
Sheahan, John J., Haley's Station, Ont.

Sims, Herbert L., Ottawa, Ont.
Sweeney, John Lawrence, B.A., Dover, N.H., U.S.A.
Tilley, Alexander R., Ottawa, Ont.
Turnbull, James William, Springhill, Ont.
Walker, Jno. Jas., B.A., Ormstown, Que.
Walsh, Cornelius Edward, Jordan Falls, N.S.
Weldon, Richard Chapman, Jr., Halifax, N.S.
White, John H., Ottawa, Ont.
Williams, Cyril S., Tyne Valley, P.E.I.
Wilson, Albert Arthur, Perth, Ont.
Young, Alex. MacG., B.A., Millsville, N.S.

PARTIAL STUDENT.

Spencer, Arthur Gordon, B.Sc., Montreal, Que.

FOURTH YEAR.

UNDERGRADUATES.

Alguire, Alexander R., Cornwall, Ont.
Anton, Duncan Lumsden Stalker, Montreal, Que.
Arnold, Duncan R., B.A., St. John, N.B.
Auld, John W., Covehead, P.E.I.
Auston, James Burrell, Brighton, Ont.
Bailey, George Whitewan, Fredericton, N.B.
Briggs, John Alfred, New Westminster, B.C.
Brown, Fred. F., Cornwall, Ont.
Brown, Gordon T., Danville, Que.
Burgess, Harry C., Canning, N.S.
Cameron, Allan B., Lancaster, Ont.
Chisholm, Hugh A., B.A., Linwood, N.S.
Connor, Edward L., Berlin, Ont.
Costello, Wolfe Joseph, B.A., Montreal, Que.
Covernton, Charles F., Montreal, Que.
Cumming, Alison, B.A., Scotsburn, N.S.
Dougan, Benjamin H., Hampstead, N.B.
Dowler, William H., Billing's Bridge, Ont
Duggan, Richard G., Hamilton, Ont.
Dykes, J. Watson, Nanaimo, B.C.
Ewart, David, Ottawa, Ont.
Finigan, Joseph F., Oshawa, Ont.
Geddes, Robert Walter, B.A., Desoronto, Ont.
Gill, Frederick D., St. John's, Nfld.
Gillis, John Howard, Metapedia, Que.
Grimmer, Roy D., St. Andrews, N.B.
Hanington, Darrel P., Victoria, B.C.
Heagerty, John J., Montreal, Que.
Henderson, Ernest H., B.A., Franklin Centre, Que.
Henry, Edward G., B.A., Lennoxville, Que.
Hewitt, Thomas Joseph, Montreal, Que.
Hume, Gordon Mackenzie, Leeds Village, Que.
King, Shelton S., Albert, N.B.
Leslie, Howard A., Souris, P.E.I.
Likely, David S., B.A., St. John, N.B.
Loggie, William S., Chatham, N.B.

MacDermot, John H., Gordon Town, Jamaica.
MacDonald, John P., Montreal, Que.
MacKay, Malcolm Edward, Whycocomagh, C.B.
MacLean, John Duncan, Beaton's Mills, P.E.I.
McDonald, John Alex., B.A., Valleyfield, Que.
McDonald, John C., Peake's Station, P.E.I.
McIntosh, Gustavus J., Dalkeith, Ont.
McLeod, William A., Finch, Ont.
McMicking, Anthony E. T., Victoria, B.C.
McMurtry, Shirley Ogilvie, B.A., Montreal, Que.
McMurtry, Walter C., Port Hope, Ont.
McNaughton, William B., St. Raphael, Ont.
Margolese, Oscar, Montreal, Que.
Mason, James H., Lachute Mills, Que.
Mercer, Thomas C., Chilliwack, B.C.
Mersereau, Harris C., Doaktown, N.B.
Miller, Allan Percy, Chatham, Ont.
Moffatt, Charles F., B.A., Montreal, Que.
Mohr, Frederick W. C., Arnprior, Ont.
Muckleston, Harold S., M.A., Perth, Ont.
Mulligan, James W., Omemee, Ont.
Munro, John A., Pugwash, N.S.
Nelles, Thomas R. B., Simcoe, Ont.
Petersky, Samuel, Vancouver, B.C.
Prendergast, Archer R., B.A., Montreal, Que.
Pruyn, William G., B.A., Napanee, Ont.
Richards, Ernest T. F., St. Vincent, B.W.I.
Rilance, Charles Delmer, Montreal, Que.
Robertson, Alexander R., Victoria, B.C.
Robertson, Beverley W., St. John, N.B.
Rommel, Ernest, Alma, N.B.
Ryan, Lorne McD., B.A., Newburgh, Ont.
Sawyer, Alpha R., Roslindale, Boston, Mass., U.S.A.
Scott, William J., B.A., Montreal, Que.
Scrimger, Francis A. C., B.A., Montreal, Que.
Seifert, Frederick William, B.A., Quebec, Que.
Sinclair, Ernest E., Summerside, P.E.I.
Smith, William A., B.A., Almonte, Ont.
Styles, William A. L., Montreal, Que.
Sullivan, James A., Arnprior, Ont.
Tees, Frederick James, B.A., Montreal, Que.
Tierney, James E., Niagara Falls, N.Y., U.S.A.
Tull, John A. C., Antigua, B.W.I.
Turnbull, Ernest G., Branchton, Ont.
Valin, Romuald Eugene, Ottawa, Ont.
Viner, Norman, B.A., Montreal, Que.
Waterman, Chester, Ogdensburg, N.Y., U.S.A.
White, Percival G., Woodstock, Ont.
Wigle, Charles A., Wiarton, Ont.
Wilkins, Frederick Fielding, Montreal, Que.
Wilkinson, William Macdonald, Woodstock, Ont.
Winder, John Brimsley, B.A., Compton, Que.
Winfrey, William C., B.L., Sault Ste. Marie, Mich, U.S.A.
Wood, Gilbert O., Kenmore, Ont.
Wood, William H., Montreal, Que.
Young, Charles A., Ottawa, Ont.

COLLEGES AFFILIATED IN ARTS.

Stanstead Wesleyan College.

FIRST YEAR.

UNDERGRADUATES.

Batcheller, Fred. I.
Crane, Frances.
Libbey, Ruth E.
Patrick, Frank A.
Reid, Jane Elizabeth.
Smith, Charles.

CONDITIONED STUDENT.

Brown, J. George.

SECOND YEAR.

Flanders, Sidney R.
Parker, David W.
Stanton, M. Charlotte.

Vancouver College.

FIRST YEAR.

UNDERGRADUATES.

Alexander, Irene Beatrice.
Anderson, Goldie Fraser.
Becker, Grace Mabel.
Cameron, Tilly Jean.
Clarke, John.
Copeland, Gertrude Mary.
Emerson, John.
Gibbins, Gwynn Gilbert.
MacLeod, Wm. Archibald.
McQueen, George Robert.
Morton, Pearl.
Parker, Eleanor.
Pearson, Mabel Mary.
Purdy, Ruth Olive.
Randall, Orville Felt.
Robson, Constance Hildred.
Shannon, William Lloyd.
Stone, William Ross.
Taylor, Kenneth C. C.
Wade, Annie Laura.

CONDITIONED STUDENTS.

Charters, Goldwin Earl.
Murray, Ernest Thompson.
Painter, Emily.

PARTIAL STUDENT.

Rolston, Frederick James.

SECOND YEAR.

UNDERGRADUATES.

Clearihue, Joseph Badenoch.
Eldridge, Gardner Cornelius.
Jackson, Frank Alexander.
McPhalen, Mary Margaret.
MacQueen, Bessie.

SPECIAL STUDENT.

Dickey, Alberta Florence.

Victoria College.

FIRST YEAR.

UNDERGRADUATES.

Cameron, Mabel.
Cobbett, Hugh R. N.
Coburn, Leila,
Finch, Oric E.
Gill, Peter C.
Monteith, Mary.
McInnnes, Robert H.
Tait, Edwin S.
Taylor, Eva.
Whyte, Harold E.

Summary.

Students in Law			30
Students in Arts, McGill College:—			
Men—	Graduate Students	10	
	Undergraduates	150	
	Conditioned	3	
	Partial	35	
Women—	Graduate Students	5	
	Undergraduates	67	
	Conditioned	1	
	Partial	37	
Students in Arts, Stanstead College		10	
Students in Arts, Vancouver College		30	
Students in Arts, Victoria College		10	
			358
Students in Applied Science:—			
	Graduates	6	
	Undergraduates	318	
	Conditioned	30	
	Partial	23	
			377
Students in Medicine:—			
	Undergraduates	357	
	Conditioned	14	
	Partial	10	
			381
			1,146
Deduct repeated in different Faculties			21
Total			1,125

University and Graduates' Societies.

Alma Mater Society.

(Officers 1904-1905.)

President—T. M. Fyshe.
Vice-President—May Idler.
Secretary—Talbot M. Papineau, B.A.
Treasurer—George Shanks, B.A.
Representatives—H. H. Christie (Juniors); Walter Muir (Medicine); Ruth Lyman (Arts, Fourth Year); Hope Scott (Arts, Third Year); G. T. Wilson (Arts, Second Year); P. G. McGibbon and Miss M. Macdonald (Arts, First Year); F. G. Wickware (App. Sci., Third Year); H. B. Lamb (App. Sci., Second Year); G. Pitts (App. Sci., First Year); R. P. Wallace and S. J. Shepherd (Law).

Undergraduates' Literary Society.

(For Session 1905-1906.)

Hon. President—Principal Peterson.
President—J. Shearer, Arts, '06.
1st Vice-President—J. M. Forbes, Sci., '06.
2nd Vice-President—F. M. Auld, Arts, '06
Secretary—G. T. Wilson, Arts, '07.
Treasurer—D. A. Cameron, Arts, '07.
Reporters—C. M. Crutchfield, Arts, '07; E. K. De Beck, Arts, '06.
Committee—J. C. Nicholson, Arts, '06; D. E. McTaggart, Arts, '06; R. L. Calder, B.A., Law, '06; W. L. Carr, Arts, '06; S. Swift, Arts, '07.

Applied Science Undergraduates' Society.

President—A. K. MacCarthy.
Vice-President—G. A. Johnstone.
Secretary—H. A. Wheaton.

McGill Medical Society.

(Officers 1905-1906.)

Hon. President.—Dr. G. E. Armstrong.
President—Mr. H. H. Christie, '06.
Vice-President—Mr. C. E. Walsh, '06.
Secretary—Mr. J. J. Healey, '07.
Treasurer—Mr. O. E. Rublee, '07.
Reporter—Mr. E. S. Williams, '06.
Reading Room Committee—Messrs. T. A. Lomer, '06; A. R. Lindsay, '07; and A. Arbuckle, '08.
Councillors—Dr. Shirres, Dr. McCrae, and E. Leighton.

Physical Society.

President—Dr. H. T. Barnes.
Vice-President—Dr. E. Rutherford.
Secretary—Mr. R. K. McClung, M.A.
Executive Committee—Prof. J. Cox, Dr. J. W. Walker, and Dr. E. G. Coker.

Chemical Society.

President—B. J. Harrington, M.A., LL.D.
Vice-President—J. W. Walker, M.A., Ph.D.
Secretary-Treasurer—N. N. Evans, M.Sc.
Executive Committee—B. J. Harrington, M.A., LL.D.; J. W. Walker, M.A., Ph.D.; N. N. Evans, M.Sc.; H. T. Barnes, D.Sc.; D. McIntosh, M.A., M.Sc.

The Historical Club.

President—Gordon S. Mundie, Arts, '06.
Vice-President—Herbert T. Shaw, Arts, '06.
Secretary—Irving O. Vincent, Arts, '07.
Treasurer—Charles W. Davis, Arts, '07.
Committee—Dr. C. W. Colby; J. Arlington Flanders, Arts, '06; Geo. V. Cousins, Arts, '06.

Delta Sigma Society.

(Established 1884.)

(Officers 1905-1906.)

President—Evelyn Sharp, '06.
Vice-President—Emily C. Crawford, '07.
Secretary-Treasurer—Theodora W. Brown, '08.
Reporter—Louise I. Couture, '07.
Committee—Blanche C. Gillmor, '06; Lucile M. King, '07; Lilia I. Ross, '08.

Young Men's Christian Association of McGill University.

Membership.—The Membership of the Association consists of graduates and students of McGill University, or of the affiliated Colleges.

All are welcomed as Associate members; the active membership comprises those who are Church members.

The home of the Association is Strathcona Hall, which, in addition to affording ample accommodation for the work of the Association as a whole, provides residence for sixty men.

Full particulars regarding the work of the Association are given in the annual Hand Book, and will also be supplied by the Secretary of the Association.

Hon. President—Alex. Johnson, M.A., LL.D., D.C.L.
President—W. L. Carr, Arts, '06.
1st Vice-President—W. J. Patterson, B.A., Med., '06.
2nd Vice-President—L. Heber Cole, Sci., '06.
Rec. Secretary—A. L. McLennan, B.A., Med., '07.
Treasurer—H. Newman, Arts, '06.
Asst. Treasurer—G. S. Raphael, Sci., '08.
Rep. from Law—Will. Stewart, '08 (Arts, '05).
General Secretary—E. W. Sheldon, M.A.

CHAIRMEN OF COMMITTEES.

Membership—F. W. Bates, Arts, '07.
Religious Meetings—G. K. MacNaughton, B.A., Med., '06.
Bible Study—C. W. Davis, Arts, '07.
Social—Murray G. Brooks, Arts, '07.
Reading Room—A. L. McLennan, B.A., Med., '07.
Foreign Work—F. E. Lathe, B.A., Sci., '07.
Finance—H. Newman, Arts, '06.
City Missions—R. H. Mulock, Sci., '07.
New Students—E. W. Sheldon, M.A.

Young Women's Christian Association.

(OFFICERS 1905-1906.)

Hon. President—Miss H. D. Oakeley, M.A.
President—Rae Mowatt, '06.
Vice-President—Charlotte M. Cheesebrough, '07.
Cor. Secretary—M. Fraser, '06.
Rec. Secretary—Lilia Ross, '08.
Treasurer—Gertrude M. Plaisted, '08.
Reporter to Outlook—Nora C. Trench, '07.
Reporter to Y. W. of Canada—Mary J. Eaton, '07.

Athletic Association.

President—F. J. Tees, B.A., Med.
Vice-President—D. G. MacCallum, Med.
Secretary—Will Stewart, Arts.
Club Representatives:—Track—F. G. Wickware, Sci.; Association Football—G. H. Brunner, Sci.; Harriers'—D. Ross, Sci.; Basket Ball—O. B. Keddy, B.A., Med.; Hockey—F. McKenna, Law.; Boxing—E. M. Benedict, Sci.

Rugby Football Club.

Hon. President—Prof. C. H. McLeod.
Hon. Treasurer—Dr. J. M. Elder.
President—J. D. G. MacCallum, Med. '06.
Vice-President—E. M. Benedict, Sci., '06.
Secretary—A. L. Sharp, Sci., '06.
Treasurer—G. Stephens, Med., '07.
Manager—W. A. Paterson, Med., '06.
Committee:—Arts—F. H. McPherson and J. A. Flanders; Medicine—D. C. Malcolm and G. R. D. Lyon; Science—A. H. Beckwith and W. S. Lea; Law—F. E. McKenna and W. Stewart.

Association Football Club.

Hon. President—Prof. C. H. McLeod.
President—G. H. Brunner, Sci., '06.
Vice-President—G. R. McCowen, Med., '07.
Secretary—A. G. McGougan, Arts, '08.
Treasurer—W. M. B. Macdonald, Sci., '07.
Captain—S. W. Werner, Sci., '07.
Manager—J. M. Forbes, Sci., '06.
Committee—Arts—J. E. Featherston; Science—R. H. Patterson; Medicine—I. Wallace.

Track Club.

Hon. President—Dr. F. W. Harvey.
Hon. Treasurer—Dr. J. M. Elder.
President—F. G. Wickware, Sci.
Vice-President—A. McG. Young, Med.
Secretary—E. K. De Beck, Arts.
Treasurer—G. F. Baird, Arts.

Hockey and Skating Club.

Hon. President—Dr. J. M. Elder.
President—F. E. McKenna, Law, '06.
Vice-President—E. M. Benedict, Sci., '06.
Secretary—W. W. Robinson, Arts, '05.
Treasurer—G. E. McCuaig, Sci., '06.
Captain—H. L. Gilmour, Sci., '07.
Manager—T. M. Fyshe, Sci., '05.
Committee:—Science—H. L. Price, '05; F. W. Anderson, '06; H. G. Zimmerman, '07; C. C. Ross, 08; Arts—J. H. Graham, '05; C. H. Payne, '06; E. S. McDougall, '07; A. Bailey, '08; Medicine—C. A. Young, '05; J. D. G. MacCallum, '06; G. F. Stephens, '07; J. D. Campbell, '08; Law—J. E. Coulin, '05; S. J. Shepherd, '06; T. M. Papineau, '07.

Basketball Club.

(Session 1904-1905.)

President—O. B. Keddy, Med., '06.
Vice-President—F. P. Shanks, Med. '07.
Secretary-Treasurer—Chas. Davis, Arts, '07.
Manager—E. E. Locke, Arts, '05.
Committeeman—W. S. Stewart, Arts, '05.

Boxing Club.

Hon. President—Dr. F. W. Harvey.
President—E. M. Benedict, Sci., '06.
Vice-President—L. O. Brown, Sci., '07.
Secretary-Treasurer—R. P. Wright, Med., '07

Harriers' Club.

President—D. H. Ross, Sci., '06.
Vice-President—R. P. Wright, Med., '07.
Secretary-Treasurer—W. J. Scott, B.A., Med., '05.

Rifle Association.

(Officers, 1905-1906.)

Hon. President—Dr. H. M Tory.
Hon. 1st Vice-President—Dr. R. F. Ruttan.
Hon. 2nd Vice-President—Dr. Leigh R. Gregor.
Hon. Secretary—Prof. Percy Nobbs.
Hon. Captain—Lieut-Col. Burland.
Captain—J. McNeill Forbes, Sci., '06.
Lieutenants—C. H. Payne, Arts, '06; W. H. Hargrave, Sci., '07.
Squad Captains—H. T. Lamb, Sci., '07; H. B. Blanchard, Med., '07; A. McGougan, Arts, '08; C. M. Ross, Sci., '08.
Secretary—G. S. Mundie, Arts, '07.

Cricket Club.

(Officers 1905-1906.)

Hon. President—The Right Hon. Lord Strathcona and Mount Royal.
President—C. E. Moyse, LL.D.
Vice-President—A. R. Oughtred, B.C.L.
Hon. Secretary-Treasurer—Mr. F. W. Davis.
Secretary-Treasurer—Mr. H. A. Jones.
Captain—Mr. W. C. Baber.
Committee—Messrs. J. A. Cameron, H. W. Walker, F. C. King, R. Gamble and G. H. Brunner.

Lawn Tennis Club.

Hon. President—H. M. Jaquays, M.Sc.
President—J. G. D. McCallum, Med., '06.
Vice-President—F. [illegible]. C. Scrimger, Med., '05.
Secretary—D. P. Hannington, Med., '05.
Treasurer—W. Molson, B.A.

R. V. C. Athletic Club.

(Officers 1905-1906.)

Hon. President—Miss S. E. Cameron, M.A.
Hon. Vice-President—Miss E. Fotheringham.
President—Birdena M. Clark.
Vice-President—Esther E. Macaulay.
Secretary-Treasurer—Vera Telfer.
Manager of the Basketball Club—Blanche Gillmor.
Manager of the Hockey Club—Mabel Fraser.
Manager of the Tennis Club—Amy Fraser.
Reporter—Inez M. Baylis.

Glee and Banjo Club.

Hon. President—Principal Peterson.
Hon. Vice-President—Dean Moyse.
President—G. V. Cousins, Arts, '06.
Vice-President—M. G. Brooks, Arts, '07.
Secretary—H. Lamb, Sci., '07.
Manager—J. A. Flanders, Arts, '06.
Assistant Manager—E. B. Rider, Arts, '07.
Executive Committee—W. G. Brown, Sci., '07; H. M. Kerfoot, Med., '06; T. S. Stewart, Arts, '05.

Alumnae Society of McGill University.

President—K. Campbell, B.A.
Vice-Presidents—S. E. Cameron, M.A.; C. M. Derick, M.A.; E. Armstrong, B.A.; E. McLeod, B.Sc.
Rec. Secretary—G. Hunter, B.A.
Asst. Rec. Secretary—E. A. Hammond, M.A.
Corres. Secretary—K. Finley, B.A.
Asst. Corres. Secretary—V. Clogg, B.A.
Treasurer—A. W. Nolan, B.A.
Asst. Treasurer—B. Marcuse, M.Sc.

Ottawa Valley Graduates' Society.

Hon. President—The Right Hon. Sir Wilfred Laurier, P.C., K.C.M.G., LL.D.
President—J. Fenton Argue, M.D.
Vice-Presidents—A. W. Harris, D.V.S.; W. B. Dawson, M.A., Ma.E., D.Sc.; Wm. Gamble, B.A., B.C.L.
Treasurer—A. S. McElroy, M.D.
Secretary—J. E. Craig, M.D.
Council—R. J. Wicksteed, M.A., B.C.L.; H. M. Ami, M.A., D.Sc.; A. T. Shillington, M.D.; A. Foster, M.D.; J. A. McArthur, M.D.

New York Graduates' Society.

(Officers, 1905-1906.)

President—Hiram N. Vineberg, M.D., C.M.
1st Vice-President—William Ferguson, M.D., C.M.
2nd Vice-President—H. J. Schwartz, M.D., C.M.
Treasurer—H. Casewell Heine, B.A., LL.B. (Univ. of New York).
Secretary—H. A. Coussirat, B.Sc., Eng. Dept. N.Y. Telephone Co., 15 Dey Street, New York City.
Directors—Harcourt Bull, B.A., B.C.L.; Wm. E. Deeks, B.A., M.D.; John G. Saxe, B.A., LL.B. (Columbia).
Non-Resident Councillors—Prof. The Rev. J. C. Bracq, M.A. (Vassar College, N.Y.); The Right Rev. J. D. Morrison, M.A., D.D., Bishop of Duluth; R. T. Irvine, M.D., C.M., Ossining, N.Y.; Rev. Donald Guthrie, B.A., D.D. (Hampden, Sidney College, Virginia), Baltimore, Md.; R. Tait McKenzie, B.A., M.D. (University of Penna., Phila.); Rev. Geo. Davey, B.A., Montclair, N.J.

New England Graduates' Society.

President—Arthur E. Childs, M.Sc. (Boston, Mass.)
1st Vice-President—George A. Fagan, M.D. (North Adams, Mass.)
2nd Vice-President—Ambrose Choquet, B.C.L. (Central Falls, R.I.).
3rd Vice-President—H. Holton Wood, B.A. (Boston, Mass.).
Secretary-Treasurer—Joseph Williams, M.D. (Boston, Mass.; 45 Monument Square).
Councillors—T. G. McGannon, M.D. (Lowell, Mass.); Miles Martin, M.D. (Boston, Mass.); W. W. Goodwin, M.D. (East Boston, Mass.); R. T. Glendenning, M.D. (Manchester-by-the-Sea, Mass.); Joseph C. Pothier, M.D. (New Bedford, Mass.); J. G. Pfersick, D.V.S. (Shelburn Falls, Mass.).

Graduates' Society of the District of Bedford.

Hon. President—Hon. Mr. Justice Lynch.
President—Chas. McBurney, B.A., Granby, P.Q.
Vice-Presidents—D. K. Cowley, M.D., Granby, P.Q.; P. C. Duboyce, B.A., Cowansville, P.Q.; Dr. Harris.
Secretary-Treasurer—L. W. Martin, M.D., Granby, P.Q.

The British Columbia Graduates' Society.

President—S. J. Tunstall, B.A., M.D. (Vancouver).
Vice-Presidents—H. M. Robertson, M.D. (Victoria); W. F. Drysdale, M.D. (Nanaimo); J. M. Gregor, B.A., B.Sc. (Slocan); Peter A. McLellan, M.D. (Nelson); J. H. King, M.D. (Cranbrook).
Secretary-Treasurer—W. J. McGuigan, M.D. (Vancouver.)
Associate Secretary—G. W. Boggs, M.D. (P.O. Box 653, Vancouver).
Executive Committee—A. E. Hill, B.Sc. (New Westminster); W. B. Burnett, B.A., M.D. (Vancouver); A. L. Kendall, M.D., (Cloverdale); E. Newton Drier, M.D. (Vancouver); J. B. Hart, D.V.S. (Vancouver); J. C. Shaw, M.A. (Vancouver).

McGill University Alumni Association of Chicago.

(Organized 1900.)

(Officers. 1903-1904.)

President—H. J. Burwash, M.D.
1st Vice-President—Chester B. Reid, B.A.Sc.
2nd Vice-President—John Ryan, M.D.
Councillors—Kenneth Moodie, B.A.Sc.; D. R. MacMartin, M.D.; J. Brown Loring, M.D.

McGill Graduates' Society of Toronto.

(Organized 1896.)

(Officers, 1902.)

President—A. R. Lewis, K.C.
1st Vice-President—Rev. Canon Sweeny, M.A., D.D.
2nd Vice-President—H. C. Burritt, M.D.
Secretary-Treasurer—R. B. Henderson, B.A., 48 King Street, West.
Committee—Hamilton Cassels, B.A.; Willis Chipman, B.A.Sc.; P. E. Ritchie, B.A.

Maritime Graduates' Society.

Hon. President—John McMillan, M.D. (Pictou, N.S.).
President—Alex. McNeil, M.D. (Kensington, P.E.I.).
Vice-Presidents—J. H. Scammell, M.D. (St. John, N.B.); Henry S. D. Johnson, M.D. (Charlottetown, P.E.I.); J. G. Macdougall, M.D. (Amherst, N.S.).
Secretary-Treasurer—F. A. Corbett, M.D. (Parrsboro, N.S.).
Executive Committee—Geo. Carruthers, M.D. (Charlottetown, P.E.I.); Jas. A. Johnson, M.D. (Emerald, P.E.I.); G. A. B. Addy, M.D. (St. John, N.B.); J. B. Travers, M.D. (St. John, N.B.); J. J. Doyle, M.D. (Halifax, N.S.); H. H. Mackay, M.D. (New Glasgow, N.S.).

Benefactors of McGill University, Montreal.

I. General Endowments and Subscriptions.

1. Original Endowment, 1811.

THE HONORABLE JAMES McGILL, who was born at Glasgow, 6th Oct., 1744, and died at Montreal, 19th Dec., 1813, by his last will and testament, under date 8th January, 1811, devised the estate of Burnside, situated near the City of Montreal, and containing forty-seven acres of land, with the Manor House and Buildings thereon erected, and also bequeathed the sum of ten thousand pounds in money unto the "Royal Institution for the Advancement of Learning," a Corporation constituted in virtue of an Act of Parliament passed in the Forty-first Year of the Reign of His Majesty, King George the Third, to erect and establish a University or College, for the purpose of Education and the Advancement of Learning, in the Province of Lower Canada, with a competent number of professors and teachers to render such Establishment effectual and beneficial for the purposes intended; requiring that one of the colleges to be comprised in the said University should be named and perpetually be known and distinguished by the appellation of "McGill College."

The value of the above mentioned property was estimated at the date of the bequest at.....$120,000

2. University Buildings, etc.

THE WILLIAM MOLSON HALL, being the west wing of McGill College Buildings, with the connecting Corridors and Class Rooms, was erected in 1861, through the munificent donation of the founder, whose name it bears.

THE PETER REDPATH MUSEUM, the gift of the donor whose name it bears, was announced by him as a donation to the University in 1880, and formally opened August, 1882.

Lots for University buildings adjoining the College grounds confronting on McTavish St., presented by J. H. R. Molson, Esq.,—$42,500.

THE UNIVERSITY LIBRARY BUILDING, the gift of Peter Redpath, Esq., announced by him as a gift to the University in 1891, and formally opened October 31st, 1893. Enlarged by Mrs. Peter Redpath in 1900.

UNIVERSITY OFFICES, Rooms in East Wing, remodelled and furnished for offices of Principal and Secretary and for a Board Room, by Sir Wm. C. Macdonald, in 1895.

THE McGILL UNIVERSITY STUDENTS' UNION, the gift of Sir William C. Macdonald in 1904,—$210,000.

3. Endowed Chairs, Etc.

THE JOHN FROTHINGHAM PRINCIPAL FUND, to be invested for the endowment of the Principalship of the University; founded in 1889 by the Rev. Frederick Frothingham and Mrs. J. H. R. Molson.—$40,000.

THE MACDONALD AUXILIARY FUND, founded in 1897 by Sir Wm. C. Macdonald, the interest to be used solely to maintain the income of certain of his endowments on a five per cent. per annum basis, —$380,250.

4. Subscriptions to General Endowment.

John Frothingham, Esq....	$2000	Forward.....	$19,200
John Torrance, Esq.....	2000	Moses E. David, Esq.....	600
James B. Greenshields, Esq.	1200	Wm. Carter, Esq.....	600
Wm. Busby Lambe, Esq....	1200	Thomas Patton, Esq.....	600
Sir George Simpson, Knight.	1000	Wm. Workman, Esq.....	600
Henry Thomas, Esq.....	1000	Hon. Luther H. Holton.....	600
John Redpath, Esq.....	1000	Henry Lyman, Esq.....	600
James McDougall, Esq.....	1000	David Torrance, Esq.....	600
James Torrance, Esq.....	1000	Edwin Atwater, Esq.....	600
Hon. James Ferrier	1000	Theodore Hart, Esq.....	600
Harrison Stephens, Esq....	800	Wm. Forsyth Grant, Esq...	600
Henry Chapman, Esq.....	600	Robert Campbell, Esq.....	600
Hon. Peter McGill.....	600	Alfred Savage, Esq.....	600
John James Day, Esq.....	600	James Ferrier, jun., Esq....	600
Thos. Brown Anderson, Esq.	600	Wm. Stephen, Esq.....	600
Peter Redpath, Esq.....	600	N. S. Whitney, Esq.....	600
Thomas M. Taylor, Esq....	600	William Dow, Esq.....	600
Joseph Mackay, Esq.....	600	William Watson, Esq.....	600
D Lorn McDougall, Esq...	600	Edward and Alicia Major..	600
Hon. Sir John Rose.....	600	Hon. Sir A. T. Galt.....	360
Charles Alexander, Esq.....	600	John R. Esdaile, Esq.....	200
Forward.....	$19,200	Total.....	$30,560

1871.

John Frothingham ,Esq.....$5150		Forward.....	$24,250
William Molson, Esq.....	5000	T. W. Ritchie, Esq.....	300
Sir William C. Macdonald..	5000	Messrs. Sinclair, Jack & Co.	250
Thomas Workman, Esq.....	5000	John Reddy, M.D.....	100
J. H. R. Molson, Esq.....	2000	Wm. Lunn, Esq.....	100
John McLennan, Esq.....	1000	Hon. F. W. Torrance.....	60
B. Gibb, Esq.....	600	Wm. Rose, Esq.....	50
Messrs. A. & W. Robertson.	600		
Forward.....	$24,250	Total.....	$25,210

1881-82.

Hugh McLennan, Esq.....$5000		Forward.....	$21,000
Hon. G. A. Drummond.....	4000	O. S. Wood, Esq.....	1000
George Hague, Esq.....	3000	J. B. Greenshields, Esq. (London)	1000
M. H. Gault, Esq.....	2000	Warden King, Esq.....	1000
Andrew Robertson, Esq....	1000	W. P. Cumming, Esq.....	1000
Robertson Campbell, Esq....	1000	Mrs. Hew Ramsay.....	500
Sir Jos. and Lady Hickson..	1000	R. A. Ramsay, Esq.....	500
Mrs. Andrew Dow.....	1000	H. H. Wood, Esq.....	500
Alexander Murray, Esq.....	1000	James Burnett, Esq.....	500
Miss Orkney	1000	Charles Gibb, Esq.....	500
Hector McKenzie, Esq.....	1000	J. S. McLachlan, Esq.....	200
Forward.....	$21,000	Total.....	$27,700

1883-84.

Edward Mackay, Esq.....$5,000.

5. Endowment Fund for General Purposes.

1897.

Bequest of the late John H. R. Molson, Esq., $100,000.

6. Subscription by Members of Board of Governors in

1898-99.—$191,000.

7. Subscriptions for the Erection of the Lodge and Gates, in 1866.

$1,950.

8. Library and Museum.

Special Collections of Books Presented to the Library.

1. The Peter Redpath Collection of Historical Books, presented by Peter Redpath, Esq., of Montreal, 3,500 Volumes, with subsequent additions.
2. The Robson Collection of works in Archæology and General Literature, presented by Dr. John Robson, of Warrington, England, 3,436 Volumes.
3. The Charles Alexander Collection of Classical Works, presented by C. Alexander, Esq., of Montreal, 221 Volumes.
4. Frederick Griffin, Esq., Q.C., Collection of Books, being the whole of his Library, bequeathed by his will, 2,695 Volumes.
5. The Hon. Mr. Justice Mackay, Collection of Books, being the whole of his Library, 2,007 Volumes.
6. The "T. D. King Shakespeare Collection," presented by Lord Strathcona and Mount Royal and Sir Wm. C. Macdonald, of Montreal, being 214 Volumes.
7. The Ribbeck Library of Classical Literature, presented by Sir W. C. Macdonald, about 4,000 works.
8. The "Mendelssohn Choir Memorial Collection," presented by Joseph Gould, Esq., 200 Volumes.
9. The "John Horne" Collection of Canadian Portraits and Autographs, 177 in all.
10. The Sir J. W. Dawson Collection of works in Geology and Palæontology, presented by the Board of Governors.

Endowments for Library.

Wm. Molson, Esq., for Endowment of a Library Fund (1871)	$ 4,000
Hon. F. W. Torrance, for Endowment of Mental, Moral and Political Philosophy Book Fund (1876)	1,000
Mrs. Redpath, for the Endowment of the Wm. Wood Redpath Memorial Fund (1881)	1,000
A Friend, by the Hon. F. W. Torrance, for Endowment of a Library Fund (1882)	400
Hugh S. McLennan, Library Endowment, a gift from Estate late Hugh S. McLennan to the Library of McGill College, the income to be applied to binding (1892)	250
Total	$ 6,650

Special Collections Presented to the Museum.

1. The Holmes Herbarium, presented by the late Andrew F. Holmes, M.D.
2. The Carpenter Collection of Shells, presented by the late P. P. Carpenter, Ph.D.
3. The Collection of Casts of Ivory Carvings, issued by the Arundel Society, presented by Henry Chapman, Esq.
4. The McCulloch Collection of Birds and Mammals, collected by the late Dr. M. McCulloch, of Montreal, and presented by his heirs.
5. The Logan Memorial Collections of Specimens in Geology and Natural History, presented by the heirs of the late Sir W. E. Logan, LL.D., F.R.S.
6. The Dawson Collection in Geology and Palæontology, being the Private Collections of Principal Dawson, presented by him to the Museum.
7. The Bowles Collection of Lepidoptera, presented by Sir Wm. C. Macdonald and J. H. Burland, Esq.
8. R. Morton Middleton, Jr., London, Eng., Collection of Plants.
9. Collection of Butterflies, presented by the Members of the Board of Governors of the University.
10. Collection of Lepidoptera, presented by Sir W. C. Macdonald,
11. The Read Collection of African Curios, presented by Lord Strathcona. (See also "List of Donations to the Museum," printed in the Annual Reports of the University).

Endowment for the Museum.

Wm. Molson, Esq., for the Endowment of a Museum Fund (1873) ..... $ 2,000

9. Miscellaneous

Chas. T. Blackman, Esq., of Montreal, the gift of a Telescope and Astronomical Instruments called after his name.

10. University Portraits and Busts.

Portrait of the Founder, presented by the late Thomas Blackwood, Esq.

Portrait of William Molson, Esq., presented to the University.

Bust of William Molson, Esq., by Marshall Wood, presented by Graduates of the University.

Portrait of Peter Redpath, Esq., painted by Sydney Hodges, presented by Citizens of Montreal.

Portrait of Rev. Dr. Leach, by Wyatt Eaton, presented by Friends and Graduates of the University.

Portrait of Sir William Dawson, by Wyatt Eaton, presented by Friends and Graduates of the University.

Portrait of Hon. James Ferrier, by Robert Harris, presented by Friends and Graduates of the University.

Portrait of Peter McGill, presented (through Mr. A. T. Taylor) by Judge Parker, of Edinburgh.

Portrait of Dr. William Robertson, founder of the Medical Faculty, presented in loving remembrance by his family and descendants.

Bust of Peter Redpath, Esq., by Reynolds Stephens, presented by Mr. Redpath's personal friends in England.

Portrait of Peter Redpath, Esq., by Robert Harris, presented by Friends and Undergraduates of the University.

Portrait of Mrs. Peter Redpath, by Robert Harris, presented by the Governors of the University.

Portrait of John H. R. Molson, by Robert Harris, presented by the Governors of the University.

Portrait of Lord Strathcona and Mount Royal, by Alphonse Jongers, presented by the Governors of the University.

Portraits of Their Excellencies The Earl and Countess of Minto, presented by themselves.

II. Endowments of the Faculty of Arts.

1. Buildings, Chairs, Etc.

Endowment Fund, 1856.

John Gordon McKenzie, Esq.....$2,000
Ira Gould, Esq..... 2,300—Total, $4,300

The Molson Chair of English Language and Literature, in 1856, endowed by the Honorable John Molson, Thomas Molson, Esq., and William Molson, Esq.—$20,000; and supplemented in 1882 by John H. R. Molson, Esq., with a further sum of $20,000. Total, $40,000.

The Peter Redpath Chair of Pure Mathematics (founded as Chair of Natural Philosophy), in 1871, endowed by Peter Redpath, Esq., $20,000.

The Logan Chair of Geology, in 1871, endowed by Sir W. E. Logan, LL.D., F.R.S., and Hart Logan, Esq.—$20,000.

The John Frothingham Chair of Philosophy, 1873, endowed by Miss Louisa Frothingham,—$20,000; and supplemented in 1891 with a further sum of $20,000. Total, $40,000.

The Major Hiram Mills Chair of Classics, in 1882, endowed by the last will of the late Major Hiram Mills, of Montreal,—$42 000.

The David J. Greenshields Associate Professorship of English Literature, endowed by the last will of the late David J. Greenshields, Esq., of Montreal, with the sum of $40,000.

The Macdonald Chairs of Physics, in the Faculties of Arts and Applied Science, endowed by Sir William C. Macdonald.—$120,000.

The Macdonald Chairs of Chemistry, in the Faculties of Arts and Applied Science, endowed by Sir William C. Macdonald, in 1897 and 1901,—$110,000.

The Macdonald Chair of Botany, endowed by Sir William C. Macdonald, in 1901,—$50,000.

The William Dow Chair of Political Economy, 1901, endowed by the Misses Dow.—$60,000.

The Macdonald Chair of Moral Philosophy, endowed by Sir William C. Macdonald in 1903,—$50,000.

The Charles Gibb Botanical Endowment, subscriptions received to date:—

A Friend $8,000
Mrs. Catherine Hill..... 200—Total, $8,200

The Macdonald Physics Building and Equipment, in the Faculties of Arts and Applied Science. The gift of Sir William C. Macdonald, announced by him as a gift to the University in 1890, and formally opened February, 1893.

The Macdonald Physics Building Maintenance Fund in the Faculties of Arts and Applied Science, endowed by Sir William C. Macdonald, in 1892 and 1896,—$150,000.

The Macdonald Chemistry and Mining Building and Equipment, given to the University by Sir William C. Macdonald, in 1896,—$267,141.80.

The Macdonald Chemistry and Mining Building and Maintenance Fund, endowed by Sir William C. Macdonald, in 1897 and 1899,—$225,000.

The Macdonald Chemistry Endowment Fund, endowed by Sir William C. Macdonald, in 1890,—$135,000.

The Kingsford Chair of History, endowed by Sir Wm. C. Macdonald, in 1898,—$50,000.

The Dawson Chair of Geology, endowed by Sir Wm. C. Macdonald in 1899,—$50,000.

The Macdonald Buildings Repair Fund, endowed in 1900 by Sir William C. Macdonald,—$15,000.

The Macdonald Experimental Psychology Fund, endowed by Sir William C. Macdonald, in 1904,—$5,000.

The Macdonald Philosophical Book Fund, endowed by Sir William C. Macdonald, in 1904,—$1,000.

The Andrew F. Gault Endowment, bequest of $10,000 from A. F. Gault, less succession duty,—$9,000.

2. Endowment for Pension Fund.

This endowment was given in 1894 to be invested, and the revenue used exclusively for providing Pensions or Retiring Allowances for members of the teaching staff of the Faculties of Arts and Applied Science:

Lord Strathcona and Mount Royal....$50,000
John H. R. Molson..... 50,000
Sir William C. Macdonald..... 50,000—Total, $150,000

3. Exhibitions and Scholarships, Etc.

The Jane Redpath Exhibition, in the Faculty of Arts,—founded in 1868, by Mrs. Redpath, of Terrace Bank, Montreal, and endowed with the sum of $1,667.

The Macdonald Scholarships and Exhibitions, 10 in number, in the Faculty of Arts,—founded in 1871, and endowed in 1882 with the sum of $25,000 by Sir William C. Macdonald.

The Charles Alexander Scholarship, for Classics—founded in 1871 by Charles Alexander, Esq. Endowed in 1893 with the sum of $2,000.

The Barbara Scott Scholarship for Classical Language and Literature—founded in 1884 by the last will of the late Miss Barbara Scott, of Montreal, and endowed with the sum of $2,000.

The Major Hiram Mills Medal and Scholarship—founded by the will of the late Major Hiram Mills, of Montreal, and endowed with the sum of $1,500.

THE PHILIP CARPENTER FELLOWSHIP—founded by Mrs. Philip Carpenter, for the Maintenance of a Post-Graduation Teaching Fellowship or Scholarship in Natural Science or some branch thereof in the Faculty of Arts in McGill College, endowed in 1892 with the sum of $7,000.

THE ALEXANDER MACKENZIE MEMORIAL FUND,—founded by the friends of the late Hon. Alex. Mackenzie, for the maintenance of fellowships or scholarships in Political Science,—$9,534.05.

4. Endowments of Medals and Prizes.

In 1856 Henry Chapman, Esq., founded a gold medal, to be named the "Henry Chapman Gold Medal," to be given annually in the graduating class in Arts. This medal was endowed by Mr. Chapman in 1874 with the sum of $700.

In 1860 the sum of £200, presented to the College by H.R.H. the Prince of Wales, was applied to the foundation of a Gold Medal, to be called the "Prince of Wales Gold Medal," which is given in the graduating class for Honour Studies in Mental and Moral Philosophy.

In 1864 the "Anne Molson Gold Medal" was founded and endowed by Mrs. John Molson, of Belmont Hall, Montreal, for an Honour Course in Mathematics and Physics.

In the same year the "Shakspere Gold Medal," for an Honour Course, to comprise and include the works of Shakspere and the Literature of England from his time to the time of Addison, both inclusive, and such other accessory subjects as the Corporation may from time to time appoint, was founded and endowed by citizens of Montreal, on occasion of the three hundredth anniversary of the birth of Shakspere.

In the same year the "Logan Gold Medal" for an Honour Course in Geology and Natural Science was founded and endowed by Sir William Logan, LL.D., F.R.S., F.G.S., etc.

In 1875 the "Neil Stuart prize in Hebrew" was endowed by Neil Stuart, Esq., of Vankleek Hill, in the sum of $340.

5. Endowments for Apparatus.

The Local Committee of the British Association for the Advancement of Science to found the British Association Apparatus Fund in the Faculties of Arts and Applied Science, in commemoration of the meeting of the Association in Montreal in 1884 ..... $1,500

III. Royal Victoria College.

1. The Donalda Endowment for the Higher Education of Women.

This endowment, given by Lord Strathcona and Mount Royal is to provide for the education of women in the subjects of the Faculty of Arts, up to the standard of the examination for B.A., in 1884	$ 50,000
And in 1886	70,000
Total	$120,000

2. Endowments Held in Trust by the Board of Royal Institution.

The "Hannah Willard Lyman Memorial Fund," contributed by subscription of former pupils of Miss Lyman, and invested as a permanent endowment to furnish annually a Scholarship or Prizes in a "College for Women," affiliated to the University, or in classes for the Higher Education of Women, approved by the University. The amount of the fund is at present $1,100.

The "Annie McIntosh Prize," contributed by pupils and friends of the late Miss Annie M. McIntosh, of Bute House, Montreal. The income to be given as a prize to women in the Faculty of Arts,—$425.

IV. Endowments and Subscriptions for the Faculty of Applied Science.

1. Buildings, Chairs, Etc.

The William Scott Chair of Civil Engineering, in 1884, endowed by the last will of the late Miss Barbara Scott, of Montreal,—$30,000.

The Thomas Workman Department of Mechanical Engineering—founded in 1891 under the last will of the late Thomas Workman, Esq., who bequeathed the sum of $117,000—$60,000 for the maintenance of a Chair of Mechanical Engineering, with the assistance, shops, machinery and apparatus necessary thereto, $57,000 to be expended in provision of necessary buildings, machinery and apparatus.

Sir William C. Macdonald, in 1890, towards erection of Thomas Workman Workshops, $20,000.

The Macdonald Engineering Building and Equipment—announced by Sir William C. Macdonald as a gift to the University in 1890, and formally opened February, 1893.

The Macdonald Physics Building and Equipment in the Faculties of Arts and Applied Science, the gift of Sir William C. Macdonald announced by him as a gift to the University in 1890, and formally opened February, 1893.

The Macdonald Chairs of Physics, in the Faculties of Arts and Applied Science, endowed by Sir William C. Macdonald—$120,000.

The Macdonald Chair of Electrical Engineering—endowed by Sir Wm. C. Macdonald, in 1891, with the sum of $40,000; in 1898, with the additional sum of $10,000. Total, $50.000.

The Macdonald Engineering Building Maintenance Fund,—endowed by Sir Wm. C. Macdonald, in 1892 and 1896,—$85,000.

The Macdonald Physics Building Maintenance Fund, in the Faculties of Arts and Applied Science, endowed by Sir Wm. C. Macdonald, in 1892 and 1896,—$150,000.

The Macdonald Chemistry and Mining Building and Equipment, given to the University by Sir William C. Macdonald, in 1896,—$267,141.80.

The Macdonald Chemistry and Mining Building Maintenance Fund,—endowed by Sir William C. Macdonald, in 1897 and 1899—$225,000.

THE MACDONALD CHAIR OF MINING ENGINEERING,—endowed in 1896 and 1903 by Sir William C. Macdonald, with the sum of $62,500.

THE MACDONALD CHAIR OF ARCHITECTURE,—endowed in 1896 by Sir William C. Macdonald, with the sum of $50,000.

THE MACDONALD CHAIRS OF CHEMISTRY, in the Faculties of Arts and Applied Science, endowed by Sir William C. Macdonald, with the sum of $110,000.

THE MACDONALD ARCHITECTURAL DEPARTMENT MAINTENANCE FUND,—endowed by Sir William C. Macdonald, in 1898,—$10,000.

THE MACDONALD MINING AND METALLURGICAL DEPARTMENT ENDOWMENT FUND,—endowed by Sir Wm. C. Macdonald, in 1899,—$55,000.

THE MACDONALD CHEMICAL DEPARTMENT ENDOWMENT FUND,—endowed by Sir Wm. C. Macdonald, in 1900,—$135,000.

THE MACDONALD BUILDINGS REPAIR FUND,—endowed in 1900 by Sir William C. Macdonald,—$15,000.

2. Endowment for Pension Fund.

This endowment was given in 1894 to be invested, and the revenue used exclusively for providing Pensions or Retiring Allowances for members of the teaching staff of the Faculties of Arts and Applied Science.

Lord Strathcona and Mount Royal....$50,000
John H. R. Molson..... 50,000
Sir William C. Macdonald..... 50,000—Total, $150,000

3. Exhibitions and Scholarships.

THE SCOTT EXHIBITION.—Founded by the Caledonian Society of Montreal, in commemoration of the Centenary of Sir Walter Scott, and endowed in 1872 with the sum of $1,100, subscribed by members of the Society, and other citizens of Montreal. The Exhibition is given annually in the Faculty of Applied Science—Annual value, $50.

THE DR. T. STERRY HUNT SCHOLARSHIP.—Founded in 1894 by the will of the late Dr. T. Sterry Hunt, and endowed with the sum of $2,082, the income to be given and paid annually to a student or students of Chemistry.

4. Medals and Prizes.

In 1885 the British Association Bronze Medals for competition in the Graduating class in the Faculty of Applied Science, were founded by subscription of members of the British Association for the Advancement of Science, and by gift of the Council of the Association, in commemoration of its meeting in Montreal in the year 1884,—$2,605.

5. Subscriptions toward Endowment of Faculty.

Endowment Fund.	
Daniel Torrance, Esq.....	$5,000
Charles J. Brydges, Esq...	1,000
R. J. Reekie, Esq.....	100
Total	$6,100

Graduates' Endowment Fund.	
Graduates' Endowment Fund—Class 1890, $70 a year for 5 years, $350; received to date	$85

6. Endowment for Apparatus.

The Local Committee of the British Association for the Advancement of Science, to found the British Association Apparatus Fund in the Faculties of Arts and Applied Science, in commemoration of the meeting of the Association in Montreal in 1884..... $1,500

7. Faculty of Applied Science Library Endowment, 1893.

Hugh Paton	$ 25	Forward	$600
A. Joyce	25	W. Rodden	25
R. Gardner	50	M. Parker	25
H. Garth	100	Robin & Sadler	50
Hughes & Stephenson	100	J. Robertson, Esq.	50
R. Mitchell	300	Mrs. John McDougall (1895)	20
Forward	$600	Total	$770

V. Endowments and Subscriptions in Aid of the Faculty of Medicine.

1. Leanchoil Endowment, 1884.

Lord Strathcona and Mount Royal.....$50,000

2. Campbell Memorial Endowment, 1884.

Established to commemorate the service rendered to the Faculty during 40 years by the late Dean, George W. Campbell, M.D., LL.D.

Mrs. G. W. Campbell.....$	2000
H. A. Allan, Esq.....	1500
Lord Strathcona and Mount Royal	1500
Lord Mount Stephen.....	1000
R. B. Angus, Esq.....	1000
Hon. Geo. A. Drummond...	1000
Alex. Murray, Esq.....	1000
Robert Moat, Esq.....	1000
Sir W. C. Macdonald.....	1000
A Friend	1000
Duncan McIntyre, Esq....	1000
A. F. Gault, Esq.....	1000
M. H. Gault, Esq.....	1000
G. W. Stephens, Esq.....	1000
James Benning, Esq.....	1000
R. P. Howard, M.D.....	1000
G. B. & J. H. Burland, Esqs.	1000
Miss Elizabeth C. Benny..	1000
J. C. Wilson, Esq.....	1000
Mrs. John Redpath.....	1000
Hon. John Hamilton.....	1000
Miss Orkney	1000
Hugh Mackay, Esq.....	1000
Hector Mackenzie, Esq. ..	1000
Thomas Workman, Esq....	1000
Hugh McLennan, Esq.....	1000
O. S. Wood, Esq.....	1000
Frank Buller, M.D.....	500
James Burnett, Esq.....	500
Andrew Robertson, Esq....	500
Robert Mackay, Esq.....	500
John Hope, Esq.....	500
Alex. Urquhart, Esq.....	500
R. A. Smith, Esq.....	500
George Hague, Esq.....	500
J. K. Ward, Esq.....	500
Warden King, Esq.....	500
John Stirling, Esq.....	500
John Rankin, Esq.....	500
Robert Reford, Esq.....	500
Forward .....$	35,500

Forward .....$	35,500
Messrs. Cantlie, Ewan & Co.	500
Messrs. J. & W. Ogilvie....	500
Randolph Hersey, Esq.....	500
John A. Pillow, Esq.....	500
S. Carsley, Esq.....	500
D. C. McCallum, M.D.....	500
Messrs. S. Greenshields, Son & Co.	500
Jonathan Hodgson, Esq...	500
George Ross, M.D.....	500
T. G. Roddick, M.D.....	500
Wm. Gardner, M.D.....	500
Messrs. Cochrane, Cassils & Co.	500
Sir Joseph Hickson.....	500
Allan Gilmour, Esq., Ottawa	500
R. W. Shepherd, Esq.....	500
G. E. Fenwick, M.D.....	300
Miles Williams, Esq.....	300
G. P. Girdwood, Esq.....	250
Charles F. Smithers, Esq..	250
John Kerry, Esq.....	250
A. Baumgarten, Esq.....	250
R. W. Elmenhorst, Esq....	250
W. F. Lewis, Esq.....	250
George Armstrong, Esq....	250
J. M. Douglas, Esq.....	250
Messrs. H. Lyman, Sons & Co.	250
F. J. Shepherd, M.D.....	250
Duncan McEachran, Esq., F.R.C.V.S.	200
Benj. Dawson, Esq.....	200
R. Wolff, Esq.....	150
James Stewart, M.D.....	150
A. T. Paterson, M.D.....	100
H. W. Thornton, M.D. (New Richmond, Q)....	100
C. B. Harvey, M.D. (Yale B.C.)	100
Forward .....$	47,100

Forward	$47,100
D. Cluness, M.D. (Nanaimo, B.C.)	100
W. Kinlock, Esq.	100
Hua, Richardson & Co.	100
Mrs. Cuthbert (New Richmond, Q.)	100
J. M. Drake, M.D.	100
Hugh Paton, Esq.	100
R. T. Godfrey, M.D.	100
T. A. Rodger, M.D.	100
W. A. Dyer, Esq.	100
Geo. W. Wood, M.D. (Faribault, Minn.)	100
A. A. Browne, M.D.	100
Geo. Wilkins, M.D.	100
R. L. MacDonnell, M.D.	100
Jos. Workman, M.D. (Toronto)	50
Henry Lunam, B.A., M.D. (Campbellton, N.B.)	50
Hon. Sir A. T. Galt	50
R. J. Alloway, M.D.	30
R. J. B. Howard, M.D.	25
Louis T. Marceau, M.D. (Napierville, Q.)	25
Griffith Evans, M.D. (Vet. Dept. Army)	26
J. J. Farley, M.D. (Belleville)	25
Henry R. Gray, Esq.	25
J. E. Brouse, M.D. (Prescott)	20
R. N. Rinfret (Quebec)	20
Forward	$48,746

Forward	$48,746
Robert Howard, M.D. (St. Johns)	20
E. H. Howard, M.D. (Lachine)	10
Drs. J. & D. McIntosh (Vankleek Hill)	20
J. H. McBean, M.D.	15
J. C. Rattray, M.D. (Cobden, O.)	10
J. W. Oliver, M.D. (Clifton, O.)	10
D. A. McDougall, M.D. (Ottawa, O.)	10
A. Poussette, M.D. (Sarnia, O.)	10
A. Ruttan, M.D. (Napanee, O.)	10
James Gunn, M.D. (Dunham, O.)	10
J. McDiarmid, M.D. (Hensall, O.)	5
W. J. Derby, M.D. (Rockland, O.)	5
J. Gillies, M.D. (Teeswater, O.)	5
J. B. Benson, M.D. (Chatham, N.B.)	5
L. A. Fortier, M.D. (St. David, O.)	5
J. A. McArthur, M.D. (Fort Elgin, O.)	5
John Campbell, M.D. (Seaforth, Ont.)	5
Total	$48,906

3. Endowed Chairs, Donations, Etc.

Lord Strathcona and Mount Royal Chair of Pathology, endowed in 1893 by Lord Strathcona and Mount Royal with the sum of $50,000

Lord Strathcona and Mount Royal Endowment for the Department of Hygiene, endowed in 1893 by Lord Strathcona and Mount Royal with a sum of 50,000

Mrs. Mary Dow Bequest—Bequest by the will of the late Mrs. Mary Dow for the Faculty of Medicine, 1893, $10,000 less Government Tax of 10 per cent 9,000

John H. R. Molson Donation—In 1893, $25,000 for the purchase of land, and $35,000 for additional building and equipment 60,000

Dr. Robert Craik Fund—

Mrs. John McDougall, toward formation of above (1893-94) $1,000
Jane F. Learmont, bequest do. do. (1894).... 3,000
4,000

Joseph Morley Drake Chair of Physiology, endowed in 1898 by Walter Drake, Esq., with the sum of..... 25,000

Lady Strathcona and Mount Royal Donation for erection and equipment Additional Buildings (1899)..... 50,000

Hon. Mrs. Howard Donation for erection and equipment Additional Buildings (1899)..... 50,000

Lord Strathcona and Mount Royal Donation in aid of the Faculty of Medicine (1904)..... 50,000

3. Medals and Scholarships.

In 1865 the "Holmes Gold Medal" was founded by the Faculty of Medicine as a memorial of the late Andrew Holmes, Esq., M.D., LL.D., late Dean of the Faculty of Medicine, to be given to the best student in the graduating class in Medicine, who should undergo a special examination in all the branches whether Primary or Final.

In 1878 the "Sutherland Gold Medal" was founded by Mrs. Sutherland, of Montreal, in memory of her late husband, Prof. William Sutherland, M.D., for competition in the classes of Theoretical and Practical Chemistry in the Faculty of Medicine, together with creditable standing in the Primary Examinations,—$1,000.

4. Museums.

Dr. J. C. Cameron, Cameron Obstetric Collections.....$10,000

VI. Endowments of the Faculty of Law.

1. Endowed Chairs, Etc.

The Gale Chair, in the Faculty of Law, endowed in 1884 by the late Mrs. Andrew Stewart (*née* Agnes Logan Gale), of Montreal, in memory of her father, the late Hon. Mr. Justice Gale,—$25,000.

The Macdonald Faculty of Law Endowment, founded by Sir Wm. C. Macdonald, in 1890—$150,000. Supplemented in 1897 by $50,000. Total, $200,000 .

2. Medals.

In 1865 the "Elizabeth Torrance Gold Medal," was founded and endowed by John Torrance, Esq., of St. Antoine Hall, Montreal, in memory of the late Mrs. John Torrance, for the best student in the graduating class in Law, and more especially for the highest proficiency in Roman Law.

VII. Graduates' Fund.

1. The Fund for the Endowment of the Library.

The Graduates' Society of the University, in 1876, passed the following Resolution:—

Resolved:—"That the members and graduates be invited to subscribe to a fund for the endowment of the Libraries of the University; said fund to be invested and the proceeds applied under the supervision of the Council of the Society in annual additions to the Libraries; an equitable division of said proceeds to be made by the Council between the University Library and those of the Professional Faculties."

In terms thereof subscriptions have been paid in to the Graduates' Society, amounting in all to $3,120; the interest on which is annually expended in the purchase of books for the several libraries, under the direction of a special committee appointed for that purpose.

2. The Dawson Fellowship Foundation.

The Graduates' Society of the University, in 1880, and in commemoration of the completion by Dr. Dawson of his twenty-fifth year as Principal, resolved to raise, with the assistance of their friends, a fund towards the Endowment of the Fellowship under the above name.

The following subscriptions have been announced to date, January 1st, 1902. They are payable in one sum, in instalments, without interest or with interest till payment of capital, as subscribers have elected.

Alphabetically Arranged.

Abbott, H., B.C.L.	$ 60	Forward	$1,730
Archibald, H., B.A.Sc.	20	Lyman, H. H., M.A.	100
Bethune, M. B., M.A., B.C.L.	50	Lyman, A. C., M.A., B.C.L.	50
Carter, C. B., B.C.L.	100	McCormick, D., B.C.L.	100
Cruikshank, W. G., B.C.L.	100	McGibbon, R. D., B.A., B.C.L.	100
Dawson, W. B., M.A., Ma.E.	50	McGoun, A., jun., M.A., B.C.L.	50
Dougall, J. R., M.A.	250	McLennan, J. S., B.A.	100
Gibb, C., B.A.	100	Ramsay, R. A., M.A., B.C.L.	50
Hall, Rev. Wm., M.A.	100	Spencer, J. W., B.A.Sc., Ph. S.	50
Hall, J. S., jun., B.A., B.C.L.	100	Stephen, C. H., B.C.L.	100
Harrington, B. J., B.A., Ph.D.	50	Stewart, D. A., B.A.Sc.	20
Hutchinson, M., B.C.L.	400	Stewart, J., M.D.	60
Kirby, J., LL.D., D.C.L.	50	Tait, M. M., B.C.L.	100
Krans, Rev. E. H. M.A., LL.D.	100	Taylor, A. D., B.A., B.C.L.	100
Leet, S. P., B.C.L.	100	Trenholme, N. W. M.A., D.C.L.	40
Lighthall, W. D., M.A., B.C.L.	100		
Forward	$1,730	Total to date	$3,110

VIII. Endowments and Donations Received During the Year 1904-05.

Sir William C. Macdonald, Endowment for Experimental Psychology Fund,—$5,000.

Sir William C. Macdonald, Endowment for Philosophical Book Fund,—$1,000.

Sir William C. Macdonald, Addition to Macdonald Auxiliary Fund,—$1,500.

Sir William C. Macdonald, Site, Building and Equipment of McGill University Students' Union,—$210,000.

Sir William C. Macdonald, Travelling Scholarships in Law,—$3,000.

Sir William C. Macdonald, For Experimental Psychology,—$250.

Sir William C. Macdonald, Subscription towards purchase of North Western MSS.,—$250.

Sir William C. Macdonald, For purchase of Philosophical Works and Periodicals,—$1,100.

Sir William C. Macdonald, Contribution towards expenses of French Summer School,—$500.

Sir William C. Macdonald, For purchase of lockers to be used in the Macdonald Physics Building,—$700.

Sir William C. Macdonald, For erection of mezzanine floor in Mining Building,—$1,000.

Lord Strathcona and Mount Royal, Donation for purchase of cases for Read Collection of African Curios,—$321.

Lord Strathcona and Mount Royal, Annual Donation towards Maintenance of Royal Victoria College, and salary of Strathcona Professor of Zoology,—$45,000.

Lord Strathcona and Mount Royal, Donation in aid of Faculty of Medicine,—$50,000.

Lord Strathcona and Mount Royal, Donation towards re-modelling Workman House for purposes of McGill University Conservatorium of Music,—$5,000.

Mrs. Peter Redpath, Annual contribution towards maintenance of University Library,—$10,000.

Mrs. Peter Redpath, Annual contribution towards maintenance of Museum,—$1,500.

A. F. Gault, Bequest of $10,000 to Faculty of Arts Endowment, less Succession Duty,—$9,000.

Estate Hugh McLennan, Towards maintenance of Travelling Libraries,—$1,120.

Subscriptions towards expenses of Library School, and towards the purchase of Canadiana for Library:

Hugh Paton, Esq.	$375
E. B. Greenshields, Esq.	150
Henry Birks, Esq.	75

A Friend, Donation to Electrical Department,—$400.

A Friend, Donation in aid of students,—$200

C. S. Campbell, Esq., Subscription towards the reception of Electrical Engineers,—$50.

George E. Drummond, Esq., Subscription towards Library School,—$15.

George E. Drummond, Esq., Prize in Faculty of Applied Science,—$25.

Canadian General Electric Co., Scholarships in Faculty of Applied Science,—$400.

J. M. McCarthy, Esq., Prizes in Faculty of Applied Science,—$40.
Crosby Steam Gage & Valve Co., Prize in Faculty of Applied Science,—$25.

Bursaries in Aid of Students in Faculty of Applied Science:

D. Morrice, Esq.	$50
James Morgan, Esq.	50
Hanson Bros.	50
F. Nicholls, Esq.	50
E. P. Mathewson, Esq.	100
A. Kingman, Esq.	50

W. A. Carlyle, Esq., Prizes in Faculty of Applied Science,—$150.
Ottawa Valley Graduates' Society Exhibition,—$50.
New York Graduates' Society, For Sir William Dawson Exhibition,—$122.
Colin C. Livingstone, Esq., Coster Memorial Prize in the Faculty of Arts,—$25.

Subscriptions for Exhibitions in Conservatorium of Music:

C. A. E. Harriss, Esq.	$50
Hon. F. L. Beique	50
Angus Hooper, Esq.	50

R. J. Wicksteed, Esq., M.A., LL.D., Annual gift of a Silver and Bronze Medal for competition in "Physical Culture" by students in the Graduating Class and Second Year of any Faculty, who have attended the University Gymnasium.

McGill University

SESSION 1904-1905

DEGREE AND SESSIONAL EXAMINATIONS

LISTS OF STANDING, HONOURS AND PRIZES

McGill University.

DEGREE AND SESSIONAL EXAMINATIONS. 1904-1905.

Faculty of Law.

THIRD YEAR (GRADUATING CLASS).

HONOURS.

(In order of merit. Students of equal standing are bracketed together.)

Harris, S. Dale, B. A.—First Rank Honours, Elizabeth Torrance Gold Medal and Prize of $50.00.
Morin, Louis S. R., B. A.—First Rank Honours and Prize of $50.00.

PASSED FOR THE DEGREE OF B. C. L.

(In order of merit.)

Harris, S. Dale, B. A.
Morin, L. S. R., B. A.
Coulin, J. E.
Stephens, L. de K., B. A.
Wallace, R. P.
Duffy, F. J.
Robertson, K. G., B.A.

(Already announced.)

Pope, C. A., B.A.

STANDING IN THE SEVERAL SUBJECTS.

(Subjects alphabetically arranged.)

AGENCY, PARTNERSHIP AND CORPORATIONS.

Harris, Morin, Coulin, Duffy, Robertson, Wallace, Stephens.

COMMERCIAL LAW.

Harris, Morin, Wallace, Stephens, Coulin, Robertson, Duffy.

CONSTITUTIONAL LAW.

Harris, Morin ; Coulin and Stephens equal ; Wallace, Robertson, Duffy.

CRIMINAL LAW.

Harris, Morin, Coulin, Duffy, Stephens, Wallace, Robertson.

INTERNATIONAL LAW.

Harris, Morin, Wallace, Coulin, Stephens, Duffy, Robertson.

MARRIAGE COVENANTS, PRESCRIPTION, ETC.

Morin, Harris, Wallace, Coulin, Duffy, Robertson, Stephens.

OBLIGATIONS.

(Paper A.)

Morin, Harris, Robertson, Wallace ; Duffy and Stephens, equal; Coulin.

OBLIGATIONS (PAPER B).

Morin, Robertson, Duffy, Harris, Stephens ; Coulin and Wallace, equal.

PROCEDURE.

Harris, Duffy, Morin, Coulin, Robertson, Stephens, Wallace.

REAL PROPERTY LAW.

Harris, Morin, Robertson ; Wallace and Duffy, equal ; Coulin, Stephens.

ROMAN LAW.

Harris, Morin, Coulin, Stephens ; Robertson and Wallace, equal ; Duffy.

SUCCESSIONS, GIFTS, SUBSTITUTIONS.

Harris, Morin ; Duffy and Stephens, equal ; Robertson, Coulin, Wallace.

SECOND YEAR.

HONOURS.

Couture, G. C. Papineau, B.A.—First Rank General Standing and Prize of $25.00.
Shallow, T. J., B.A.—First Rank General Standing and Prize of $25.00.
McKenna, F. E., B.A.—Second Rank General Standing.

PASSED SESSIONAL EXAMINATIONS.

(In order of merit).

Couture, G. C. P., B.A. ; Shallow, T. J., B.A. ; McKenna, F. E., B.A. ; Calder, R. L., B.A. ; Shepherd, S. S. ; Stackhouse, R. T. ; Sperber, M. M. ; Legault, J. L. Z. ; Downes, P. J., B.A. ; Johnson, W. S., B.A.

STANDING IN THE SEVERAL SUBJECTS.

CIVIL PROCEDURE.

Shallow; Couture and Sperber, equal ; Downes; McKenna and Stackhouse, equal ; Shepherd, Calder, Legault.

CRIMINAL LAW.

Couture and Shallow, equal ; Calder, Shepherd, Stackhouse, Sperber, McKenna, Legault, Downes.

COMMERCIAL LAW

Couture and Shallow, equal; Shepherd and Legault, equal; Sperber, Calder; McKenna and Stackhouse, equal; Downes.

GIFTS AND SUBSTITUTIONS.

Couture, McKenna, Shallow, Sperber: Stackhouse and Shepherd, equal; Calder, Legault, Downes.

INTERNATIONAL LAW.

Couture; Calder and Shallow and Shepherd, equal; McKenna, Downes, Legault; Sperber and Stackhouse, equal.

MARRIAGE COVENANTS.

Shallow, Couture, McKenna, Calder, Downes, Stackhouse, Shepherd, Legault, Sperber.

PARTNERSHIP AND AGENCY.

Couture; McKenna and Shallow, equal; Stackhouse, Sperber; Calder and Legault, equal; Downes, Shepherd.

REAL PROPERTY LAW.

Couture, Shallow, McKenna, Calder, Shepherd, Legault, Stackhouse, Sperber, Downes.

FIRST YEAR.

HONOURS.

Walker, H. E., B.A.—First Rank General Standing, Scholarship of $100 and First Prize in Roman Law.
Papineau, Talbot M., B.A.—First Rank General Standing, Scholarship of $100 and Second Prize in Roman Law.

PASSED THE SESSIONAL EXAMINATION.

(In order of Merit.)

Walker, H.E., B.A.; Papineau, T.M., B.A.; Creelman, J.J., B.A.; Parkins, E. R., B.A.; Dillon, J. H.; Girouard, J. A.

STANDING IN THE SEVERAL SUBJECTS.

CIVIL PROCEDURE.

Papineau, Walker, Creelman, Parkins, Dillon, Girouard.

CONSTITUTIONAL LAW.

Walker, Papineau, Girouard, Creelman, Parkins, Dillon.

LEGAL HISTORY.

Dillon, Walker, Creelman; Papineau and Parkins, equal; Girouard.

OBLIGATIONS.

Walker; Creelman and Papineau, equal; Girouard, Parkins, Dillon.

PERSONS.

Papineau; Creelman and Girouard, equal; Walker, Dillon, Parkins.

REAL RIGHTS.

Walker, Papineau, Creelman, Dillon, Parkins, Girouard.

ROMAN LAW.

Walker, Papineau, Parkins, Dillon, Creelman, Girouard.

Faculty of Arts.

PASSED FOR THE DEGREE OF B.A

IN HONOURS.

(In Alphabetical Order.)

First Rank. —Bowman, Nora.
Chodat, Henri.
Fraser, George A.
Idler, May.
King, Louis V.
McFee, M. C. Coll.
Michaels, Rosebud.
Moule, Frances.
Taber, Marion M. D.

Second Rank.—Lyman, Ruth D.
Smith, Ella.
Smith, May.

ORDINARY B.A.

(In order of merit. Students of equal standing are bracketed together.)

Class I.—Adams, C. A.

Class II.—Howitt, H.
Blanchard, C. H. S.
{Hill, Julia.
{Jenkins, J.
Robinson, F. G.
Halpenny, T. A.
Roy, P. R.
{Curtis, W. E.
{McMurtry, R. O.
Hitchcock, Mary A.
Pearson, Mary E. F.
{Carruthers, C.
{Stewart, T. S.
{Stewart, W.
{Tupper, C. S.

Class III.—Colgrove, W. G.
Munn, Laura A.
Cameron, A. W.
Crane, C. W.
Robinson, W. W.
Gillean, A. Muriel.
Cotton, T. F.
Graham, J. H.
Ower, J. J.
Healy, Rose E.
Hyde, G. G.
Hepburn, Flora E.

ORDINARY B.SC.

Class I.—McCoy, M. Isabel.
Class II.—None.
Class III.—None.

DOUBLE COURSE IN ARTS AND APPLIED SCIENCE.

Dickenson, John G.
Harvie, R.

DOUBLE COURSE STUDENTS IN ARTS AND MEDICINE WHO WILL BE QUALIFIED TO OBTAIN THE DEGREE OF B.A. IN JUNE, 1905, ON COMPLETING THEIR MEDICAL YEAR.

Cross, E. C.
Fripp, G. D.
Gray, E. H.
Locke, E. E.
Rabinovitch, M.
Tannenbaum, D.

BACHELORS OF ARTS PROCEEDING TO THE DEGREE OF M.A. IN COURSE.

Fee, James Erwin.
Hadrill, Margaret Frances.
Jack, Milton.
McGougan, Edward.
Mackenzie, Angus Donald Morrison.
Munn, William Clement.
Robertson, Lemuel.
Sheldon, Ernest Wilson.

BACHELORS OF ARTS PROCEEDING TO THE DEGREE OF M.SC. IN COURSE

Henderson, Ernest Henry.
Macleod, Annie Louise.

MASTER OF SCIENCE PROCEEDING TO THE DEGREE OF D.SC. IN COURSE

McIntosh, A. Douglas.

ADMITTED TO THE DEGREE OF LL.D., HONORIS CAUSA.

Keefer, Thomas Coltrin.

FOURTH YEAR (GRADUATING CLASS).

HONOURS.

(Subjects arranged alphabetically.)

In Biology.

Taber, Marion M. D.—First Rank Honours.
Lyman, Ruth D.—Second Rank Honours.

In Chemistry.

Fraser, George A.—First Rank Honours.
McFee, M. C. Coll.—First Rank Honours.

In Classics.

Smith, Ella.—Second Rank Honours.

In English Language and Literature.

Michaels, Rosebud.—First Rank Honours and Shakespeare Gold Medal.
Moule, Frances.—First Rank Honours.
Bowman, Nora.—First Rank Honours.

Graduate Student taking Honours Work in course for M.A.

Class II.—Logan, D.

In History and Economics.

(1) Course A.

Smith, May.—Second Rank Honours.

In Mathematics and Natural Philosophy.

King, Louis V.—First Rank Honours and Anne Molson Gold Medal.

In Modern Languages.

Idler, May.—First Rank Honours and Minto Gold Medal.
Chodat, Henri.—First Rank Honours.

First Rank General Standing.

Adams, Claude A.—Special Certificate.

THIRD YEAR.

HONOURS.

(Subjects of each Rank and of Prizes in alphabetical order.)

Kirsch, Simon.—First Rank Honours in Biology; Prize in Botany; Prize in Moral Philosophy.
MacLeod, A. R.—First Rank Honours in Classics; Prize in Greek.
Peterson, W.—First Rank Honours in Classics; Prize in Latin.
Naylor, R. K.—First Rank Honours in Classics.
McTaggart, D.—First Rank Honours and Prizes in History and Economics.
Ryan, Esther.—First Rank Honours in English Language and Literature.
Shaw, H. T.—First Rank Honours in History and Economics: Prize in Political Science.
Sharp, F. E.—Annie MacIntosh Prize.
Drew, John McO.—Second Rank Honours in Biology.
Gibb, R. W.—Second Rank Honours in Classics.

Cousins, G. V.—Second Rank Honours in History and Economics.
Barclay, G.—Second Rank Honours in History and Economics.
Vineberg, S.—Second Rank Honours in History and Economics.
Rorke, Mabele.—Second Rank Honours in Mathematics and Natural Philosophy; Prize in Physics.
Rogers, D. B.—Second Rank Honours in Mental and Moral Philosophy.
De Beck, E. K.—Prize in Political Science.
Lewis, David S.—Prize in Zoology.
Graduate Student:—Henry, Edna, First Rank Honours in Modern Languages.

PASSED THE THIRD YEAR EXAMINATIONS.

FOR COURSE LEADING TO B.A.

(Arranged in alphabetical order.)

Barclay, Braidwood, Carr, Clark, Cousins, Crocker, Drew, Eckhardt, Edwards, Flanders (s), Fraser, A. B. (s), Fraser, M. G., Gibb, Gillmor, Hendry (s), Kirsch, Lyman, McLeod, McQueen, McTaggart, Marcuse, Mowatt (s), Mundie, Naylor, Newman, Nicholson, Payne, Pease, Phelps, Peterson, Rogers, Rorke, Ryan, Scott (s), Shaw, Smith, Stanton, Vineberg.

(s).—Supplemental Examination in one subject.

Ægrotat.

Bridgette, S. J.

FOR COURSE LEADING TO B.SC.

Lewis, D. S.; Sharp, F. E.

STUDENTS IN ARTS, REGISTERED IN THE MEDICAL FACULTY, WHO WILL BE QUALIFIED TO ENTER THE FOURTH YEAR ARTS ON COMPLETING THEIR MEDICAL YEAR.

FOR COURSE LEADING TO B.A.

McCallum, J. C.

SECOND YEAR.

HONOURS.

Auld, F. M., (Prince of Wales College, Charlottetown, P.E.I.)—First Rank Honours in Latin.
Bates, F. W.—First Rank Honours in Mathematics.
Eaton, M. J., (Private Tuition).—First Rank Honours and Prize in Latin.
Macmillan, W., (Prince of Wales College, Charlottetown, P.E.I.)—First Rank Honours and Prize in Mathematics.
Penny, E. G. T., (Private Tuition).—First Rank Honours in Latin.
Vincent, I., (Stanstead College School).—First Rank Honours in Latin; First Rank Honours in Philosophy; First Rank General Standing; Prize in Greek; Prize in English; Prize in Philosophy.
King, L. M., (Montreal High School for Girls).—First Rank General Standing; Prize in Latin; Prize in English; Prize in French.
Couture, I., (Montreal High School for Girls).—First Rank General Standing. Prize in English; Prize in German.
Swift, S. C., (Petrolea High School).—First Rank General Standing. Prize in French; Prize in German.
Gould, E. M. L., (Montreal High School).—First Rank General Standing.
Wilson, G. T., (Vancouver College).—Second Rank Honours in Latin. Prize in Chemistry.
Cherry, W. H., (Woodstock College).—Prize in French.

Huxtable, M., (Montreal High School for Girls).—Prize in Greek.
Bartels, R. C., (Private Tuition).—Prize in Hebrew.
Parsons, H. G., (Port Hope High School).—Prize in Hebrew.
Heward, C. G., (St. John the Evangelist's School).—Second Rank Honours in Latin.
James, A. E., (McGill Normal School).—Second Rank Honours in Mathematics.
Meldrum, H. T., (Ottawa Collegiate Institute).—Second Rank Honours in Mathematics.
Huntley, H., (Prince of Wales College, Charlottetown).—Second Rank Honours in Philosophy.

PASSED THE SECOND YEAR EXAMINATIONS.

(1)—FOR COURSE LEADING TO B.A.

Class I.—King; Couture; Vincent; Swift; Gould. *Class II.*—Huxtable; Eaton; Auld; Wilson; Crawford; Ellis and Mackenzie, equal; Parsons; Cherry; Macmillan; Rider; Riley; Cheesbrough and Huntley, equal; Heward; Wisdom; Penny; Bates; Brooks. *Class III.*—Harrison and Bartels, equal; MacDonald; Hayden; Cliff; Davis; Ballon, D. H.; Clearihue (*s*)‡; Macaulay, E. E.; McQueen‡; Kydd; Williams; Cattanach; Bayles; McDougall; McCann; Mowatt; Ballon, I. and Parker (*s*),† equal; Masson; Eldridge (*s*) ‡; Coates and Stanton (*s*),† equal; Meldrum (*s*); Cameron (*s*); McPhalen (*s*) ‡; James (*s*); Crutchfield (*s*); Pierce (*s*); Armstrong, L. F. (*s*) and Dickey (*s*),‡ equal; Allan (*s*).

(2)—FOR COURSE LEADING TO B.SC.

Class I.—None. *Class II.*—None. *Class III.*—Trench (*s*).

FIRST YEAR.

HONOURS.

Boyle, G. M., (Glen-Mawr School, Toronto).—First Rank Honours in Mathematics.
Gillis, N. R., (Prince of Wales College, Charlottetown, P.E.I.)—First Rank Honours in Mathematics. First Rank Honours in Latin. First Rank General Standing. Coster Memorial Prize. Prize in Latin; Prize in Greek; Prize in Mathematics; Prize in Physics.
McGougan, A. G., (Glencoe High School, Ontario).—First Rank Honours in Mathematics. First Rank Honours in Latin. First Rank General Standing. Prize in Latin; Prize in English; Prize in Mathematics; Prize in Physics.
Meldrum, W. B., (Ottawa Collegiate Institute, Ontario).—First Rank Honours in Mathematics.
Plaisted, G. M., (Dunham Ladies' College, P.Q.).—First Rank Honours in Mathematics; Second Rank Honours in Latin.
Shaw, A. N., (Montreal High School).—First Rank Honours in Mathematics.
Tyndale, O. S., (Feller Institute, Grande Ligne).—First Rank Honours in Latin. First Rank General Standing. Prize in French.
Wisdom, B. B., (Saint John High School).—First Rank Honours in Latin.
McClughan, E., (Vancouver College, B.C.).—First Rank General Standing. Second Rank Honours in Latin. Prize in English; Prize in German.
Archibald, K. (Montreal High School).—First Rank General Standing. Second Rank Honours in Mathematics.

(*s*) Supplemental Examination in one subject.
† Stanstead. ‡ Vancouver. * Victoria.

Hawkins, F. E. (Quebec High School).—First Rank General Standing. Second Rank Honours in Latin. Prize in English.
Paterson, E. R. (Montreal High School).—First Rank General Standing.
Macnaughton, A. M. (High School for Girls, Montreal).—Second Rank Honours in Latin.
Ross, L. I. (Hamilton Collegiate Institute).—Second Rank Honours in Latin. Prize in Mathematics.
Creswell, H. J. (Lachute Academy, P.Q.).—Prize in Physics.

PASSED THE SESSIONAL EXAMINATION.

(1).—FOR COURSE LEADING TO B. A.

Class I.—McGougan ; Gillis ; McClughan ; Hawkins ; Paterson ; Archibald ; Tyndale.
Class II.—Shaw ; Fineberg ; Ross ; Kingman ; Feiczewicz ; Plaisted ; Creswell ; Tremblay ; Emerson (*s*)‡ and Sauvalle, equal ; Macnaughton and McBurney and McInnes,* equal ; Anderson‡ and Smillie, equal ; Cameron.‡
Class III.—Rice and Wisdom, (*s*), equal ; Libby (*s*)† and Ramsey, equal ; Cobbett* and Isherwood, equal; Greenshields, (*s*); Bouchard, (*s*) and Tait,* equal; Stockwell; Gibbins;‡ Boyle, (*s*) and Pearson (*s*)‡ and Stone (*s*),‡ equal ; Meldrum ; Simpson (A. C.); Younger (*s*) ; Ayer (*s*) ; Macdiarmid (*s*) ; Dolbel (*s*) and Lindsay(*s*), equal ; Shanks (*s*); Hastings (*s*); Penny (*s*) ; Monteith (*s*) ;* Baird (*s*) ; McDougall (*s*).

(2).—FOR COURSE LEADING TO B.SC.

Class I.—None.
Class II.—Simpson, J. C.
Class III.—Stewart, Auchinleck, (*s*).

(3)—FOR COURSE LEADING TO B. ARCH.

Class I.—None.
Class II.—None.
Class III.—Ruttan, (*s*); Wood, (*s*).

STANDING IN THE SEVERAL SUBJECTS.

FOURTH YEAR.

ASTRONOMY.

Class I.—Adams and Curtis, equal ; Crane. *Class* II.—Colgrove. *Class* III.—Graham.

BOTANY.

Class I.—Taber, McCoy, Lyman. *Class* II.—None. *Class* III.—None

CHEMISTRY (ORGANIC.)

Class I.—Fraser, McFee.

COMPARATIVE PHILOLOGY.

Class I.—None. *Class* II.—None. *Class* III.—Munn, Hepburn.

CONSTITUTIONAL LAW.

Class I.—Howitt ; Stewart (T. S.) and Stewart (W.), equal. *Class* II.—Tupper, Robinson (F. G.). *Class* III.—None.

(*s*) Supplemental Examination in one subject.
†Stanstead. ‡Vancouver. * Victoria.

ENGLISH COMPOSITION.

Class I.—Moule, McMurtry and Robinson (F.G.), equal; Adams and Bowman, equal; Hill and Jenkins, equal; Healy and Hitchcock and Michaels, equal. *Class* II.—Pearson, McCoy and Munn and Halpenny, equal; Cameron and Hyde, equal; Gillean and Blanchard, equal; Tannenbaum, Ower; Crane and Howitt and Rabinovitch, equal; Kimber and Graham, equal; Carruthers and Roy, equal. *Class* III.—Downey, Cross, Curtis, Hepburn, Cotton, Colgrove, Stewart (W); Locke and Tupper, equal; Robinson (W. W.) and Stewart (T. S.), equal.

ENGLISH LITERATURE: (ELIZABETHAN DRAMATISTS).

Class I.—McMurtry, Adams, Munn, Hepburn, Curtis. *Class* II.—Healy, Hyde. *Class* III.—Robinson (W. W.)
Graduate Student:—*Class* I.—Kornfeld, S., B.A., (Cincinnatti).

ENGLISH LITERATURE: (POETS OF THE 19TH CENTURY.)

Class I.—Michaels. *Class* II.—Moule, Bowman, Hitchcock. *Class* III.—Carruthers, Robinson (F. G.); Hepburn and Munn, equal.

ENGLISH LITERATURE: (EIGHTEENTH CENTURY.)

Class I.—None. *Class* II.—McMurtry, Hyde, Healy. *Class* III.—Robinson (W. W.).

ENGLISH LITERATURE: (PROSE FICTION).

Class I.—Bowman, Michaels, Moule; Hill and Robinson (F. G.), equal. *Class* II.—Carruthers. *Class* III.—Graham; Hitchcock and Pearson, equal; Kimber.

EXPERIMENTAL PHYSICS.

(1). *Electricity and Magnetism.*

Class I.—Fraser. *Class* II.—None. *Class* III.—Blanchard, McFee.

(2). *Electrical Measurements.*

Class I.—King.

FRENCH.

Class I.—Idler, Chodat. *Class* II.—Roy, McMurtry. *Class* III.—Gillean, Hyde, Cotton.

GEOLOGY.

Class I.—Cotton, Halpenny. *Class* II.—Stewart (W.), Cameron, Hill, Stewart (T. S.), Ower, Hitchcock, Jenkins. *Class* III.—Robinson (W. W.), Pearson, Mackenzie.
Graduate Student:—*Class* II.—McGougan, E., B.A.

SPECIAL COURSE IN GEOLOGY.

Class II.—Adams.
Graduate Students:—*Class* II.—Jack, M., B.A., Mingie, G. E., B.A.

GERMAN.

Class I.—Idler, Binks, Chodat. *Class* II.—None. *Class* III.—Healy, Kimber, Prendergast.

GREEK

Class I.—None. *Class* II.—None. *Class* III.—Smith, Hepburn.

HEBREW AND ARAMAIC

Class I.—Roy.

HISTORY OF MODERN PHILOSOPHY.

Class I.—None. *Class* II.—Halpenny. *Class* III.—Colgrove.
Graduate Students:—*Class* II.—Mackenzie, A. D. M., B.A. *Class* III.—Hindley, J. G., B.A.

HISTORY.

Class I.—Carruthers. *Class* II.—Gillean. *Class* III.—Roy.
Graduate Students:—*Class* I.—Lundie, H., M. Sc. *Class* II.—Kornfeld, S., B.A. (Cincinnatti).

ENGLISH CONSTITUTIONAL HISTORY.

Class I.—Smith (May), Tupper. *Class* II.—Howitt and Stewart, (T.) equal; Munn, Stewart (W.). *Class* III.—None.
Graduate Student:—*Class* II.—Fee, J. E., B.A.

HISTORY OF THE SEVENTEENTH CENTURY.

Class I.—None. *Class* II.—Hill, Pearson, Smith (May), Munn. *Class* III.—None.
Graduate Students:—*Class* I.—Hadrill, M., B A., and Mackenzie, C. I., B.A., equal; Fee, J. E., B.A. *Class* II—Kornfeld, J. S., B.A. (Cincinnatti).

HISTORY OF THE UNITED STATES.

Class I.—None. *Class* II.—None. *Class* III.—Smith (May).
Graduate Students:—*Class* I—Mackenzie, C. I., B.A., Hadrill, M., B.A *Class* II.—Davidson, M. B., B.A.

LATIN.

Class I.—Blanchard. *Class* II.—Smith, A. E., Munn. *Class* III.—Hepburn.

MATHEMATICS.—(*Diff. and Integral Calculus*).

Class I.—None. *Class* II.—Gillean.

MORAL PHILOSOPHY.

Class I.—None. *Class* II.—Cameron, Curtis. *Class* III.—Graham.

POLITICAL ECONOMY.

(1) *Economics.*

Class I.—Jenkins.

(2) *Problems of Modern Cities*

Class I.—Smith, (M.)

POLITICAL SCIENCE.

Class I.—Crane. *Class* II.—Carruthers, Hyde. *Class* III.—Healy, Curtis, Colgrove.
Graduate Student:—*Class* III.—Fee, J. E., B.A.

POLITICAL SCIENCE (ADVANCED).

Class I.—Howitt and Robinson (F. G.), equal; Adams and Jenkins, equal; McMurtry and Tupper, equal. *Class* II.—Hill and Pearson and Robinson (W. W.,) and Smith and Stewart (T. S.), equal; Cameron and Cotton and Ower and Stewart (W.), equal. *Class* III.—Cross and Graham and Hitchcock, equal.
Graduate Student.—*Class* III.—Hadrill, M., B.A.

PSYCHOLOGY.

Graduate Student.—Class II.—McGongan, E., B.A.

ROMAN LAW.

Class I.—None. *Class* II.—Howitt, Tupper. *Class* III.—Blanchard.

ZOOLOGY (ADVANCED).

Class I.—None. *Class* II.—Taber. *Class* III.—Lyman.

ZOOLOGY.

Class I.—None. *Class* II.—None. *Class* III.—Ower.

THIRD YEAR.

ANGLO SAXON.

Class I.—None. *Class* II.—Ryan, Logan. *Class* III.—None.

BOTANY.

Class I.—Kirsch (*Prize*), Lewis, Simpson (J.C.), Sharp, Drew. *Class* II.—None. *Class* III.—Marcuse.

CHEMISTRY.

Class I.—Lewis, Sharp. *Class* II.—Lyman. *Class* III.—Mundie, Marcuse.

CHEMISTRY (ORGANIC).

Class I.—None. *Class* II.—Drew. *Class* III.—Kirsch.

CONSTITUTIONAL LAW.

Class I.—None. *Class* II.—Hendry. *Class* III.—None.

ENGLISH COMPOSITION.

Class I.—Eckhardt; McQueen and Smith, equal. *Class* II.—Clark, Sharp; De Beck and Fraser (A. B.) and Lewis, equal; Marcuse and Mowatt and Ryan, equal; Braidwood and Payne and Phelps, equal; McCallum, Scott, Shearer and Stanton, equal. *Class* III.—Mundie, Lyman, Nicholson; Flanders and Gillmor, equal; Pease, Carr; Fraser (M. G.) and Newman, equal; Edwards, Crocker.

ENGLISH LITERATURE: (EIGHTEENTH CENTURY).

Class I.—Eckhardt, Phelps, Ryan. *Class* II.—Mowatt and Scott, equal; Braidwood, Clark, Payne, Fraser (M.). *Class* III.—Stanton, Fraser (A), Marcuse and Shearer, equal; Newman; Mundie and Nicholson, equal.

ENGLISH LITERATURE: (ELIZABETHAN DRAMATISTS).

Class I.—Clark, Ryan; Fraser (M.) and Phelps, equal; Eckhardt, Payne, *Class* II.—Scott, Nicholson, Gillmor, Mowatt. *Class* III.—Fraser (A.), Mundie, Stanton, Newman, Braidwood; Marcuse and Shearer, equal.

EXPERIMENTAL PHYSICS.

(*Sound, Light, Heat.*)

Class I.—Rorke (*Prize*). *Class* II.—Crocker. *Class* III.—Flanders, Mundie, Pease, Hendry.

(*Electricity and Magnetism*)

Class I.—Carr. *Class* II.—None. *Class* III.—None.

FRENCH.

Class I.—None. *Class* II.—Baynes. *Class* III.—Scott, Gillmor, McQueen, Stanton.

Graduate Student.—Class I.—Henry, E., B.A.

GEOLOGY.

Class I.—Fraser (A. B.) *Class* II.—Clark and Eckhardt, equal; Mowatt; Braidwood and Fraser (M. G.), equal; Sharp; Pease and McQueen, equal; Phelps. *Class* III.—Stanton, Edwards, Hannah.

GERMAN.

Class I.—None. *Class* II.—Clark (B.) *Class* III.—Fraser (M.), Phelps.

Graduate Student.—Class I.—Henry, E., B.A.

GREEK.

Class I.—MacLeod*; Naylor and Peterson, equal. *Class* II.—Gibb. *Class* III.—Edwards.

HISTORY OF MODERN PHILOSOPHY.

Class I.—None. *Class* II.—Rogers. *Class* III.—None.

HISTORY.

Class I.—McTaggart (*Prize*), Shaw, Cousins, Barclay, DeBeck. *Class* II.—Payne and Vineberg, equal; Smith (A. N,), Eckhardt, Lyman. *Class* III.—Flanders, Newman, Nicholson.

HISTORY OF THE SEVENTEENTH CENTURY.

Class I.—McTaggart, Shaw; Barclay and Cousins, equal. *Class* II.—None.

HISTORY OF GREEK PHILOSOPHY

Class I—None. *Class* II.—Rogers. *Class* III.—Kirsch.

ENGLISH CONSTITUTIONAL HISTORY.

Class I.—McTaggart, Cousins, Shaw, Barclay. *Class* II.—Vineberg, Hendry. *Class* III.—None.

LATIN.

Class I.—MacLeod (*Prize*), and Peterson (*Prize*), equal; Naylor. *Class* II.—Gibb, McQueen. *Class* III.—Edwards.

MATHEMATICS.

Diff. and Integral Calculus

Class I.—Crocker, Smith (A. M. N.), DeBeck. *Class* II.—None.

MORAL PHILOSOPHY.

Class I.—Kirsch (*Prize*), Rogers. *Class* II.—Nicholson, McCallum, Shearer. *Class* III.—Cordner, Carr; Hannah and Mackay, equal.

**Distinction in Examination.*

POLITICAL ECONOMY.

(1) *Economics.*

Class I.—McTaggart (*Prize*). *Class* II.—Shaw, Cousins, Vineberg. *Class* III.—Barclay.

POLITICAL SCIENCE.

Class I.—De Beck (*Prize*), Shaw (*Prize*), Barclay, McTaggart, Smith (A. N.), Lyman, Payne. *Class* II.—Vineberg, McCallum, Pease. *Class* III.—Gillmor, Hendry, Cousins, Mackay, Newman, Shearer, Braidwood, Cordner.

PSYCHOLOGY.

Class I.—None. *Class* II.—Rogers. *Class* III.—None.

ZOOLOGY.

Class I. Lewis (*Prize*). *Class* II.—Kirsch, Drew. *Class* III.—None.

SECOND YEAR.

BOTANY.

Class I.—Vincent, MacDonald, Davis. *Class* II.—Trench, Parsons, Mackenzie; Allan and Williams, equal; Wisdom, Coates, Cherry. *Class* III. Pierce; Ballon (I) and Cliff, equal; Cushing, Macaulay (G. F.), Garvin, Stafford.

BIOLOGY (CONTINUATION COURSE).

Class I.—Wilson. *Class* II.—Auld. *Class* III.—Ballon.
Passed Supplemental of Christmas Examination, Ballon (I).
Fourth Year Student.—Class III.—Colgrove.

CHEMISTRY.

Class I.—Wilson (*Prize*), King, Auld; Ellis and Mackenzie, equal. *Class* II.—Rider; Crawford and Huxtable, equal; Hayden and Heward, equal. *Class* III.—Crutchfield and Kydd, equal; Cheesbrough, Macdonald; Baylis and Trench, equal; Belyea and Brooks, equal; Eaton, McDougall; Mowatt and Silver, equal; Cameron; Allan and Macaulay, (E. E) equal; Ballon (I); Macaulay (G. F.) and Penny, equal; Ballon (D. H.) and Masson, equal; Armstrong, Morison; Cattanach and Wood, equal.

ENGLISH.

Class I.—Parker.†Vincent (*Prize*), and King (*Prize*), equal; Clearihne‡ and Couture (*Prize*), equal; Swift, Harrison; Gould and Heward, equal; Auld and Cherry and Macmillan and McPhalen‡ and Penny and Stanton,† equal. *Class* II.—Wilson, Eaton, Davis; Cheesbrough and Cliff and Crawford, equal; Armstrong (G. D.); Brooks and Cameron and McQueen‡ and Rider and Riley and Wisdom, equal; Cattanach and Dickey,‡ equal; Ellis; Armstrong (L. F.) and Bates and Huxtable, equal. *Class* III.—Belyea and Parsons, equal; Macaulay (E. E.); MacDonald and Trench, equal; Levinson and McCann, equal; Ballon (D.H.) and Bartels and Coates and Williams, equal; Hayden and Macaulay (G. F.), equal; Ballon (I.) and Masson, equal; Baylis and Kydd and Mackenzie, equal; Crutchfield; McDougall and Silver, equal; Cushing and Huntley and Mowatt, equal; Pierce, Allan, Meldrum, Wood; Eldridge‡ and Garvin and James and Stafford, equal; Buckley; Jackson‡ and Morison, equal.

GERMAN.

Class I.—Couture (*Prize*), King, Swift (*Prize*), Cherry. *Class* II.—Eaton. *Class* III—Hayden, Trench, Ballon (D.).

† Stanstead College.
‡ Vancouver College.

FRENCH.

Class I.—King (*Prize*), Couture, Swift (*Prize*), Cherry (*Prize*). *Class* II.—Cheesbrough, Auld, Penny, Ballon (D.), Hayden, Buckley, Trench, Rider. *Class* III.—Cattanach, Heward; Bartels and Mowatt, equal; Davis, MacDonald, Wood; McDougall and Masson and Armstrong, equal; Kydd, Thompson; Macaulay (E.) and Stevens, equal; Ballon (I), Stanton,† Baylis and Parker,† equal; McQueen,‡ McPhalen,‡ Williams.

GREEK.

Class I.—Vincent* (*Prize*), Huxtable* (*Prize*), Crawford, Gould, Parsons, Wisdom. *Class* II.—Mackenzie, McCann, Riley. *Class* III.—Macmillan, Cliff, Bartels.

HEBREW.

Class I.—Bartels (*Prize*), Parsons (*Prize*), Mackay, Gould; Riley and McCann, equal; Sawers. Huntley. *Class* II.—Bates, Harrison and Foote, equal; Macmillan. *Class* III.—Pierce.

LATIN.

Class I.—Eaton (*Prize*), and King (*Prize*), equal; Couture, Swift, Vincent, Huxtable, Auld and Gould, equal; Crawford, Penny. *Class* II.—Wilson, Rider, Meldrum; Cheesbrough and Huntley, equal; Hayden and Heward, equal; Parker† and Riley, equal; Ballon (D. H.), Wisdom, Eldridge‡ and MacDonald, equal. *Class* III.—Cherry; Baylis and McQueen‡ and Williams, equal; McPhalen,‡ Ellis, Cliff, Armstrong (L. F.); Macaulay (E. E.) and MacDougall, equal; James; Mowatt and Stanton,† equal; Cattanach and Clearihue,‡ equal; Ballon (I.) and Bartels and Kydd, equal; Harrison and Jackson,‡ equal; Masson; Bates and Coates and Davis and McCann, equal; Cameron; Brooks and Dickey,‡ equal.

LOGIC.

Class I.—Clearihue‡ and Macmillan, equal. *Class* II.—Vincent and Mackenzie, equal; Gould and Wilson, equal; Harrison, Parsons; Eaton and MacDougall, equal; Crutchfield and Heward, equal; Ellis and Huxtable, equal; Brooks. *Class* III.—Crawford and Kydd, equal; Riley, Cameron; Swift and Wisdom, equal; Garvin and James, equal; Cheesbrough and Huntley, equal; Cliff and Penny, equal; Coates and Ballon (I.), equal; Bates; Allan and Belyea, equal; Eldridge‡ and McQueen,‡ equal; Davis, Parker,† Pierce; Armstrong and Bartels and Baylis and Cattanach and Cushing and Dickey‡ and McPhalen‡ and Meldrum and Mowatt and Masson and Williams, equal.

MATHEMATICS.

(1). *Algebra (April, 1905.)*

Class I.—Ellis, Eldridge,‡ Couture, McQueen‡. *Class* II.—Brooks, Macaulay (E. E.), Huntley, Clearihue‡ and Rider, equal. *Class* III.—Silver, Stanton†, Dickey‡, Crutchfield, Morison, Belyea.

(2). *Geometry and Conic Sections (Christmas, 1904).*

Class I.—Ellis; Brooks and Couture, equal; Huntley. *Class* II.—Clearihue‡, Rider, Eldridge‡. *Class* III.—Flanders†, Morison; Silver and Wood†, equal; Parker†, Dickey‡, Macaulay E., McQueen‡; Robb and Stanton,† equal.

Geometry and Conic Sections (April, 1905).

(Passed Supplemental)—Belyea, Crutchfield, McPhalen‡.

(3). *Advanced Section in Mathematics.*

Class I.—MacMillan (*Prize*), Bates. *Class* II.—James, Meldrum.

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* *Distinction in Examination.* †Stanstead College. ‡Vancouver College.

PSYCHOLOGY (*Christmas, 1904*).

Class I.—Eaton andMackenzie and Vincent, equal; Bates and Huxtable and MacMillan and McPhalen,‡ equal. *Class II.*—Cheesbrough and Huntley, equal; Wisdom; Ellis and Swift, equal; Parsons; Coates and Crawford and Gould and Harrison and McQueen,‡ equal. *Class III.*—James, Kydd; Armstrong (L. F.) and Heward and Flanders † and Riley, equal; Pierce, Brooks, Wilson; Steedman and Williams, equal; Cliff; Clearihue,‡ Crutchfield; Cameron and Campbell and Eldridge ‡ and Penny, equal; Masson; Armstrong (G. D.), and Ballon (I.), equal; Cushing and Davis, equal; Cattanach; Allan and Baylis and Belyea and Garvin and Mowatt, equal; Dickey ‡ and Parker † and Meldrum, equal.

PSYCHOLOGY (*April, 1905*).

Class I.—None. *Class II.*—None. *Class III.*—Dickson, Chandler.

(Passed Supplemental).—McCann, McDougall, Stafford.

Advanced Psychology.

Class I.—None. *Class II.*—Vincent (*Prize*). *Class III.*—Huntley.

FIRST YEAR.

ENGLISH.

Class I.—McEvers, McClughan (*Prize*), Hawkins (*Prize*) and McGougan (*Prize*), equal; Archibald (K.) and Emerson,‡ equal. *Class II.*—Mackeen, Tyndale; Anderson ‡ and Boyle and Gillis and Kingman, equal; Bouchard and Lindsay (S. B.) and Rice and Shaw and Simpson (J. C.) and Wisdom, equal; Libby † and Paterson and Whyte,* equal; Auchinleck and Cameron,* equal; Stewart, Cameron ‡; McQueen ‡ and Morton ‡ and Shanks and Younger ,equal; Fineberg and Ramsey, equal; Feiczewicz; Hastings and Macnaughton and Patrick † and Pearson ‡ and Smillie, equal; Creelman and Monteith * and Stone,‡ equal; McBurney and Randall ‡ and Sauvalle, equal; Greenshields and MacDiarmid and McInnes * equal. *Class III.*—Cobbett *; Finch *; and Plaisted, equal; Morrison and Rolston,‡ equal; Bole and Taylor,* equal; Cresswell and Copeland ‡ and Gibbins ‡ and McDougall, equal; Batcheller † and Tremblay and Wade,‡ equal; Hibbard and Penny, equal; Ayer and Dolbel and Gordon and Ross and Stockwell, equal; Bignell and McLeod and Tait,* equal; Alexander ‡ and Baird and Clarke,‡ equal; Bridgman and Crane † and McLeod ‡ and Rice and Simpson (A. C.) and Stevenson, equal; Smith †; Meldrum and Murray ‡ and Painter ‡ and Telfer, equal; Gill.*

FRENCH.

Class I.—Sauvalle, Tremblay, Tyndale (*Prize*), Archibald (K.), Fineberg; Feiczewicz and Younger, equal. *Class II.*—McInnes,* Plaisted and Stockwell, equal; Pearson ‡ and Smith (G), equal; Libby † and Paterson, equal; Anderson,‡ Creswell. *Class III.*—Stewart, Dolbel, Patrick,† Monteith,* Cameron,‡ McGibbon; Cobbett * and Ramsey and Tait,* equal; Smith †; Greenshields and Randall,‡ equal; Becker ‡ and Lindsay (S. B.) and MacDiarmid and Smillie, equal; Auchinleck and Penny, equal; Hibbard and Meldrum, equal; Hastings and Kingman, equal; Brown † and Parker,‡ equal; Mackeen and Shanks and Shaw, equal; Batcheller,† Creelman, Purdy.‡

† Stanstead.
‡ Vancouver.
* Victoria.

GERMAN.

Class I.—McClughan (*Prize*), Younger. *Class II.*—McGougan, Feiczewicz. *Class III.*—Lindsay, L.N.

GERMAN (BEGINNERS).

Class I.—None. *Class II.*—Auchinleck. *Class III.*—Thompson, Greig, Mackeen, Stewart.

GREEK.

Class I.—Gillis (*Prize*), Emerson and McGibbon, equal; Hawkins, Wisdom, Ross. *Class II.*—MacNaughton, McBurney, Bouchard. *Class III.*—Rice, Isherwood.

LATIN.

Class I.—Gillis (*Prize*), McGougan (*Prize*), McClughan, Archibald; Emerson ‡ and Plaisted and Wisdom, equal; Paterson, Hawkins, Tyndale, Bouchard; Greenshields and Macnaughton and Shaw, equal. *Class II.*—Randall ‡; McGibbon and Ross, equal; Feiczewicz and Pearson ‡ and Tait.* equal; Libby † and Kingman and McBurney and Penny, equal; Shanks, Cameron ‡ and Morton,‡ equal; Ritchie; Clark and Fineberg and Isherwood, equal; Anderson ‡ and Boyle and Hastings and MacDiarmid and Stone,‡ equal. *Class III.*—Painter ‡; Alexander ‡ and Wade,‡ equal; Lindsay (S. B.), Ramsey; Dolbel and Younger, equal; Sauvalle; Cobbett * and McQueen ‡ and Smillie, equal; Cook; Gibbins ‡ and Monteith.* equal; Creswell and McInnes * and Meldrum, equal; Gordon and Rice and Shannon ‡ and Stockwell and Taylor,* equal; Mackeen; Becker ‡ and Smith, equal; Ayer and Tremblay, equal; Baird and McDougall and Simpson (A. C.), equal; Smith †; Cameron * and Parker ‡ and Purdy,‡ equal.

(*Advanced Section.*)

Class I.—McGougan and Tyndale, equal; Gillis, Wisdom. *Class II.*—Hawkins, Plaisted, McClughan, Ross, Macnaughton.

MATHEMATICS.

(1) *Algebra.*

Class I.—Boyle, Gill,* Fineberg, Kingman; Ayer and Smillie, equal; Cameron ‡ and Paterson and Timberlake, equal; Feiczewicz and Plaisted and Ross, equal; Parker ‡; Rolston ‡ and Simpson (A. C.), equal; Libby † and Randall ‡ and Shaw, equal; Macdonald; McBurney, Stone ‡; Archibald (K.) and McClughan and Tyndale, equal; Cameron * and Dolbel and Whyte,* equal; Cresswell; Cobbett * and Tremblay, equal. *Class II.*—Emerson ‡ and Sauvalle and Wood, equal; McQueen,‡ Stevenson, Becker ‡; Cummins and Lindsay (S. B.), equal; Smith (G. E.); Henry and Patrick,† equal; Batcheller † and Tait,* equal; Hawkins and Ramsey and Ritchie, equal; Finch * and Stockwell, equal; Anderson,† Cook; Clarke ‡ and McInnes,* equal; Gardiner and Pearson ‡ and Stewart, equal. *Class III.*—Brown,† MacDiarmid, Rice; Isherwood and Reid † and Telfer, equal; Auchinleck and Crane,† equal; Wisdom; Purdy ‡ and Younger, equal; Charters ‡ and McDougall and Simpson (J. C.); Hastings and Macnaughton, equal; Ekers and Venables, equal; Baird and Gibbins,‡ equal; McGibbon and Taylor,* equal; Copeland ‡ and Ruttan and Shannon,‡ equal; Mavety and Morton,‡ equal; Monteith,* Thomson, Shanks; Penny and Smith,† equal.

† Stanstead.
‡ Vancouver.
* Victoria.

(2) *Trigonometry.*

Class I.—McGougan and Whyte,* equal; Gill,* Ross; Boyle and Smillie, equal; Timberlake and Stone,‡ equal; Shaw; Feiczewicz and Hawkins and Paterson, equal; Emerson ‡ and Plaisted, equal; Clarke ‡; Gillis and Kingman, equal; Ayer and Cook and Parker,‡ equal; Libby †; Cresswell and Ritchie, equal; Archibald and Fineberg, equal; Anderson ‡ and Tyndale, equal. *Class II.*—Sauvalle and Wood, equal; McClughan; Rolston ‡ and Simpson (J. C.), equal; MacDiarmid; Cummins and McInnes * and Meldrum, equal; Cobbett,* and Ekers and Tremblay, equal; McBurney and Wisdom, equal; Patrick † and Penny and Venables, equal; Purdy ‡ and Ramsey and Ruttan and Tait,* equal; Becker ‡ and Simpson (A. C.), equal; Cameron ‡ and Dolbel and Randall,‡ equal. *Class III.*—Batcheller,† Crane † and MacLeod,‡ equal; Stewart and Younger, equal; Gibbins ‡ and Stevenson, equal; Gardiner and Henry and Pearson,‡ equal; Brown † and McQueen,‡ equal; Hastings; Greenshields and Shanks, equal; Auchinleck; Charters ‡ and Copeland ‡ and Rice, equal; Baird; Smith and Stockwell and Thomson, equal; Cameron * and Monteith * and Murray ‡ and Shannon ‡ and Smith, equal; Copeland and Finch * and Lomer, equal; Isherwood and Lindsay and McDougall and Macnaughton, equal.

(3) *Geometry (Christmas, 1904).*

Class I.—Gill,* Shaw, McClughan, Cummins, Ross, Libby †; Hawkins and Paterson, equal; Ayer, Timberlake; Ramsay and Ruttan and Whyte,* equal. *Class II.*—Jenkins; Auchinleck and Copeland (G. W.)‡ and Emerson ‡ and Rolston ‡ and Tyndale, equal; Feiczewicz; Shannon ‡; Lindsay † and Stevenson, equal; Dolbel, Cameron *; Baird and Becker ‡ and Clarke ‡ and Finch * and Parker ‡ and Pearson ‡ and Simpson (A. C.) and Smillie and Smith (G. E.) and Stewart, equal; Stone,‡ Brown (J. G.)†; Fineberg and Gale and Monteith,* equal; Brown (T. W.) and Cobbett,* equal; Randall,‡ Ritchie, Sauvalle. *Class III.*—Batcheller † and McBurney and McQueen ‡ and Patrick,† equal; Coburn * and Mackay and Runnels, equal; Archibald and MacDiarmid and MacInnes * and Tremblay, equal; Creswell and Gardiner and Lomer and Mavety and Murray ‡ and Rice (E. L.) and Taylor,* equal; Alexander ‡ and Anderson ‡ and Cameron (L.)‡ and Gibbons ‡ and Hastings and Kingman and Smith (C. H. V.)† and Stockwell, equal; Ekers and Greenshields and Simpson (J. C.), equal; Burgess and Macnaughton and Morrison and Tait,* equal; Purdy,‡ Shanks, Venables, Wade ‡ and Wisdom, equal; Bouchard and McDougall, equal; Morton,‡ Cook, and Isherwood, equal; Penny and Taylor ‡ and Telfer, equal; MacLeod ‡ and MacKeen, equal; Archibald (H. M.) and Baillie, equal; Edgell and Henry and Lumsden and Macdonald and McGibbon, equal; Crane † and Hibbard, equal; Charters ‡ and Smith (M. L.) and Younger, equal; McPherson.

Geometry (April, 1905).

Class I.—None. *Class II.*—Wood. *Class III.*—None.
(Passed Supplemental), Vallillee.

(4) *Advanced Section in Mathematics.*

Class I.—McGougan (*Prize*), Gillis (*Prize*), Meldrum, Plaisted; Shaw and Boyle, equal. *Class II.*—Archibald.. *Class III.*—None.

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† Stanstead.
‡ Vancouver.
* Victoria

PHYSICS.

Class I.—McGougan (*Prize*); Creswell (*Prize*) and Gillis (*Prize*), equal; Paterson and McClughan, equal; Kingman; Finch * and Shaw, equal. *Class II.*—Whyte *; McInnes * and Ruttan, equal; Rice; Hawkins and Timberlake, equal; Simpson (A. C.), Tremblay, Fineberg and Isherwood and Tyndale, equal; Bouchard and Smillie, equal; Ayer. *Class III.*—Archibald and Macnaughton, equal; Gibbins ‡; Patrick † and Ross, equal; Gill * and McBurney and Wood, equal; Boyle and Meldrum, equal; Stone ‡; Cobbett * and Plaisted, equal; Tait,* Rolston,‡ Stockwell, Ramsey, Greenshields; Cameron ‡ and Copeland and Randall,‡ equal; Anderson ‡ and Feiczewicz and Gardiner and MacLeod ‡ and Stewart, equal; Baird and McDougall and Sharpe, equal; Mavety and Suavalle, equal.

Faculty of Applied Science.

FOURTH YEAR GRADUATING CLASS.

HONOURS

(In alphabetical order).

Boyle, Robert William.—British Association Exhibition; British Association Medal and Prize; Prize for Summer Thesis; Honours in A. C. Machinery, Electrical Engineering, Hydraulics and Thermodynamics.
Forbes, Harry Leo.—British Association Medal and Prize; Dawson Fellowship in Mining; First Carlyle Prize; Honours in Mining Engineering.
Fyshe, Thomas Maxwell.—British Association Medal and Prize; Honours in Designing, Geodesy and Theory of Structures.
Harris, Alan Dale.—Prize for Summer Thesis; Honours in A.C. Machinery.
Hogan, John.—Prize for Summer Thesis.
Jewett, F. Coburn.—Honours in Railway Engineering.
Kydd, George.—Honours in Structural Engineering.
Leonard, E. Ibbotson.—British Association Medal and Prize.
MacDermot, Sidney Guy Fleetwood.—British Association Exhibition; Honours in Electrical Engineering.
MacMillen, Harry Hind.—Prize for Summer Thesis; Honours in Dynamics of Machinery.
McDougall, Clarence Hobart.—Allis-Chalmers Scholarship.
Sutherland, Charles H.—Honours in Thermodynamics.

PASSED FOR THE DEGREE OF BACHELOR OF SCIENCE.

(In order of merit.)

CIVIL ENGINEERING.

Fyshe, Thomas Maxwell, Montreal, Que.
Kydd, George, Montreal, Que.
Jewett, F. Coburn, Sheffield, N.B.
Hogan, John, Westmount, Que.
Jost, Edward Burton, Guysboro, N.S.
Idsardi, Harold William, St. Thomas, Ont.
Putnam, Alfred Allan, Halifax, N.S.
Hamilton, Samuel Wilfred, Montreal, Que.

ELECTRICAL ENGINEERING.

Boyle, Robert William, Carbonear, Nfld.
MacDermot, Sidney Guy Fleetwood, Ropley, Jamaica, West Indies.
Harris, Alan Dale, Ottawa, Ont.
Cropper, William Charles McDonald, Kingstown, St. Vincent, West Indies.

Burpee, Lockwood, Gibson, N.B.
Findlay, Delmer Clinton, Danville, Que.
Wheaton, Hazen Ashley, Elgin, Albert Co., N. B.
Johnstone, George Albert, Rednersville, Ont.
Archibald, Hiram Herman, Harbour Grace, Nfld.
Willard, Charles, Morrisburg, Ont.
Glassco, Gordon Bond, Hamilton, Ont.
Scouler, Gavin Theodore, New Westminster, B.C.
Campbell, John Alexander, Cheltenham, Ont.
Ross, Walter Garfield, Port Perry, Ont.
Redpath, William, Montreal, Que.
Cunha, Stanton Herbert Stanley, Kingston, Jamaica, West Indies.
Bowness, Ernest William, Kensington, P.E.I.
Drinkwater, Kenneth E., Montreal, Que.
Bedwell, Charles Francis, Columbus, Ohio, U.S.A.
Price, Herbert Lawrence, Montmorency, Que.
Wright, Clifton Hazle, Barbados, West Indies.
McLean, Donald, Campbellton, N.B.
Joseph, Abraham Pinto, Quebec, Que.

MECHANICAL ENGINEERING.

Leonard, E. Ibbotson, London, Ont.
Sutherland, Charles H., New Glasgow, N.S.
MacMillen, Harry Hind, Alberry Plains, P.E.I.
Gillies, George Ackland, Carleton Place, Ont.
Cockshutt, Harvey W., Brantford, Ont.
Turnbull, Harvard, Montreal, Que.

METALLURGY.

Hamilton, Alfred McLean, Westmount, Que.

MINING ENGINEERING.

Forbes, Harry Leo, Waverley, Halifax Co., N.S.
McDougall, Clarence Hobart, South Maitland, Hants Co., N.S.
Martin, Edward Newcome, York, Ont.
Sharpe, George Pearce, Agassiz, B.C.

THIRD YEAR.

PRIZES.

(In alphabetical order.)

Black, Douglas E.—Prize for Mechanical Drawing.
Brunner, Godfrey H.—Prize for Summer Thesis.
Clawson, Ernest E.—Prize for Graphical Statics.
Cole, George Edwards.—Prize for Summer Thesis.
Davidson, Thomas R.—Prizes for Chemical Laboratory and Mineralogy.
Gray, Alexander.—Prizes for Electrical Laboratory Work and Continuous Current Machinery.
Kirkpatrick, Everett Charles.—Prize for Graphical Statics.
Loudon, Andrew C.—Prizes for Continuous Current Machinery and Thermodynamics.
Lea, William S.—Prizes for Dynamics of Machines, Mathematics and Theory of Structures.
Macnab, John J.—Prize for Summer Thesis.

McLachlan, D. William.—Third Mathematical Prize; McCarthy Prize for Fieldwork; Prize for Practical Astronomy.
Piers, E. O. Temple (B.A.)—Second Mathematical Prize.
Robertson, Arthur F.—Prizes for Chemistry and Geology.
Sharp, A. Lester.—McCarthy Prize for Fieldwork.
Wilson, Thomas A.—Prize for Metallurgy.

PASSED THE SESSIONAL EXAMINATIONS.

(In order of merit.)

ARCHITECTURE.

Blackader, Gordon H., Montreal.
Anglin, J. Penrose, Montreal.

CHEMISTRY.

Robertson, Arthur F., Que.
Harvie, Robert, Westmount, Montreal.
Wilson, Thomas A., Waverley, Halifax Co., N. S.
Davidson, Thomas R., Montreal.
*Churchill, Cecil, Hantsport, N. S.

CIVIL ENGINEERING.

McLachlan, D. William, Lochaber Bay, Que.
Piers, E. O. Temple, (B.A.), Wolfville, N. S.
Clawson, Ernest E., St. John, N. B.
Macnab, John J., Elsinore, Ont.
*McCuaig, G. Eric, Montreal.
*Brunner, Godfrey H., Huyton, Liverpool, Eng.
Pedley, Norman F., Montreal.
Anderson, Frederic W., Ottawa, Ont.
*McConkey, Thomas C., Guelph, Ont.
*Hadley, Henry, Montreal.

ELECTRICAL ENGINEERING.

Lea, William S., Victoria, P. E. I.
Thomas, Herbert P., New Brighton, Victoria, Australia.
Brennan, George E., Ottawa, Ont.
*Durland, Royden K., Yarmouth, N. S.
Christie, Clarence V., (B.A.) Halifax, N. S.
Walker, Cecil W., Kensington, P. E. I.
Forbes, John McN., Bonavista, Nfld.
*Gurd, A. Douglas, Montreal.
*Purdy, James D., Springhill, N. S.
*Boyd, Alfred A. S., Montreal.
*Mudge, Reginald, Montreal.
*Tupper, Frederick M., Truro, N. S.
*Cram, Alexander S., Smith's Falls, Ont.
*Beaubien, James de G., Outremont, Que.

(Special Student), Gray, Alexander, Edinburgh, Scotland.

MECHANICAL ENGINEERING.

Kirkpatrick, Everett C., Montreal West, Que.
Jackson, Maunsell B., Toronto, Ont.
Loudon, Andrew C., Ottawa, Ont.
Pippy, George F., Springhill, N.S.
Black, Douglas E., Montreal.
Brady, James C., Victoria, B.C.
Presner, Joseph, Montreal.
Turley, Edward J., Frankford, Ont.

* To pass Supplemental Examination.

MINING ENGINEERING.

*Howell, Edgar N., Westmount, Que.
*McMeekin, Albert, Bright, Ont.
*Sharp, A. Lester, Summerside, P.E.I.
*Cole, L. Heber, Montreal.
*Cole, G. Edwards, Westmount, Que.
Ritchie. A. Bruce, Halifax, N.S.
*Dickenson, John G., New York City, U.S.A.
*Burnett, Archibald, Montreal.
*Wickware, Francis G., (B.A.), Eatons Corners, Ont. (Special).

SECOND YEAR.

PRIZES.

(In alphabetical order).

Bell, Winthrop P. (B.A.).—Prizes for Mathematics, Descriptive Geometry Physics.
Gamble, Clarke W.—Prize for Surveying Fieldwork.
Kenyon, Lot A.—Prize for Descriptive Geometry.
Kingston, Lawrence B.—Prize for Descriptive Geometry.
Lamb, Harry M.—Scott Exhibition; Prizes for Descriptive Geometry, Chemistry, Mapping, Mathematics and Surveying.
Pringle, Angus F.—Scott Prize.
Racey, Percy W.—Prize for Descriptive Geometry.
Shearer, George W.—Prize for Descriptive Geometry.
Sproule, Gordon.—Prize for Descriptive Geometry.
Williams, Frederick H.—Prize for Mechanical Drawing.
Wright, George R. (B.A.)—Prize for Mathematics.

PASSED THE SESSIONAL EXAMINATIONS.

(In order of merit.)

CHEMISTRY.

Elliott, Percy Harris, Saskatoon, Sask., N.W.T.

CIVIL ENGINEERING.

Lamb, Harry M., Montreal, Que.
Bell, Winthrop Packard, (B.A.), Halifax, N.S.
Brooks, Charles E., Grafton, Ont.
Miller, Henry B., Montreal, Que.
Racey, Percy W., Lennoxville, Que.
Carney, Michael J., (B.A.), Halifax, N.S.
Martin, George H., Moncton, N.B.
Gamble, Clarke W., Victoria, B.C.
Davis, George H., Gananoque, Ont.
Holloway, Edward S., Montreal, Que.
Westland, Clarence R., Wyoming, Ont.
Beaton, Norman H., St. Catharines, Ont.
Black, Hiram J., Amherst, N.S.
Wheaton, Isaac, Port Midgic, West Co., N.B.
Brown, William G. B., Quebec, Que.
Wilson, William S., Niagara Falls South, Ont.
*Howe, John P., Pembroke, Ont.
*Mulock, Redford H., Winnipeg, Man.
*Hay, Norman K., Ottawa, Ont.
*Morrow, Hugh M., Halifax, N.S.
*Moyse, John J., Montreal, Que.
*Brown, Lindsay O., Metcalfe, Ont.
*Otty, George N., Hampton, N.B.

* To pass Supplemental Examination.

ELECTRICAL ENGINEERING.

Kenyon, Lot A., Warden, Que.
Shearer, George W., Montreal, Que.
Woodyatt, James B., Brantford, Ont.
Griffin, Frank F., Winnipeg, Man.
Brown, S. Barton, Ottawa, Ont.
Wark, Samuel D. (B.A.), Langley Prairie, B.C.
Williams, Frederick H., East Sherbrooke, Que.
Wright, George R. (B.A.), Salisbury, N.B.
Hargrave, William H., Medicine Hat, N.W.T.
*Trimingham, James H., Hamilton, Bermuda, West Indies.
Macdonald, Robert Ross, Hamilton, Ont.
*Engel, Nathan L., Montreal, Que.
*Barclay, Charles H., St. Paul, Minn., U.S.A.

MECHANICAL ENGINEERING.

Munn, D. Walter (B.A.), Montreal, Que.
Riddell, Arthur S., Hamilton, Ont.
Foster, Henry S., Montreal.
Whitcomb, Frank O., Smith's Falls, Ont.
Hall, Norman M., Cornwall, Ont.
Callaghan, John C., Hamilton, Ont.
Norton, Thomas J., Montreal.
Hepburn, Maurice G., Dunmore, Cullompton, England.
Killam, Lawrence, (B.A.), Yarmouth, N.S.

METALLURGY.

Brown, W. Gordon, (B.A.) Montreal, Que.
Lathe, Frank E. (B.A.), Lacolle, Que.

MINING ENGINEERING.

Kingston, Lawrence B., Ottawa, Ont.
Sproule, Gordon, St. Lambert, Que.
Macaulay, Rupert M., Scotstown, Que.
Estey, James R., Moncton, N. B.
*Conway, Edmund J., Ladysmith, B. C.
*Patterson, Raymond H., Melbourne, Australia.
*Hayes, Albert O., Granby, Que.
*Drummond, George D., Midland, Ont.

FIRST YEAR PRIZES.

(In alphabetical order.)

Dowswell, Harry R.—Prize for Architectural Drawing.
Fox, Charles H.—Prize for Descriptive Geometry.
Guillet, George L.—Prizes for Descriptive Geometry and Physics.
Herbert, Harry.—Second Fleet Workshop Prize; Prizes for Descriptive Geometry and Physics.
Harris, Harvey W.—Prize for Mathematics.
Kearney, Graham.—Prizes for Descriptive Geometry and Mathematics.
Lighthall, Abram.—Prize for Descriptive Geometry;
Parham, John B.—First Fleet Workshop Prize; Prize for Descriptive Geometry.
Pitts, Gordon McL.—First Fleet Workshop Prize.

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*To pass Supplemental Examination.

PASSED THE SESSIONAL EXAMINATIONS.

(In order of merit. Students of equal standing are bracketed together).

Kearney, Graham, Renfrew, Ont.
Herbert, Harry, Ottawa, Ont.
Fox, Charles H., Winnipeg, Man.
Guillet, George L., Lindsay, Ont.
Parham, John B., Outremont, Que.
Rogers, Alvah H., Stellarton, N. S.
Davies, Harold C., Chelsea, Que.
Johnston, Harold S. Gananoque, Ont.
Harris, Harvey W., Kingston, Jamica.
†Hattie, James B., Caledonia, Guysboro Co., N. S.
Lighthall, Abram, Vankleek Hill, Ont.
Whyte, Herbert B., Ottawa, Ont.
Carmichael, Henry G., Montreal, Que.
McBeath, D. Blair, Marshfield, P.E.I.
Dowswell, Harry R., Dutton, Ont.
Campbell, Edmund E., Belmont, P. E. I.
Baird, John B., St. John's, Newfoundland.
Kerr, Archibald, Dutton, Ont.
Irwin, Robert H., Ottawa, Ont.
Bristol, C. F.,
Turnbull, Kenneth, Montreal, Que.
Dick, William J., Nanaimo, B.C.
Stitt, Ormond M., Ottawa, Ont.
Pitts, Gordon McL., Ottawa, Ont.
Dalton, Arthur T., Vancouver. B.C.
Cameron, James S., Stellarton, N.S
*Moore, William J., Hyde Park, Vt.
*Vipond, William S., Montreal, Que.
Richardson, Charles E., St. Mary's, Ont.
de la Vega, Gonzalo, Havana, Cuba.
{ Ballantyne, Thomas, B., Galt, Ont.
{ Pratt, Austin, C., Ottawa, Ont.
Graham, John R., Ottawa, Ont.
Ross, Cecil M., Ottawa, Ont.
*Hodge, Charles A., Birchton, Que.
Shanks, Daniel A., Howick, Que.
*Green, Harold P., Oak Leaf, Ont.
Heywood, Edward P., Montreal, Que.
*Lundy, T. H. D., Brantford, Ont.
*D'Aeth, John B., Kingston, Jamaica, West Indies.
*Montgomery, Edgar G., New Richmond, Que.
*Dawson, Victor E., Ottawa, Ont.
*Whitton, Corbett F. (B.A.), Hamilton, Ont.
Ahern, Walter J., Westmount, Que.
*Murphy, William H., Rochester, N.Y.
*Robertson, Gilbert, Brantford, Ont.
*Spencer, Walter H., Montreal, Que.
Morrin, Arthur D., Beech Ridge, Que.
*Scott, William R., Napanee Ont.
*Beaudry, Abel C., Montreal Que.
*Morrison, Albert G., Woodstock, Ont.
*Carlyle, Russell A., Woodstock, Ont.
*Ross, Donald, Edmonton, Alberta.
Filer, Samuel W., Montreal, Que.
*Younger, Harry R., Ottawa, Ont.
†*Mather, William A., Rat Portage, Ont.
*Davis, Francis M., Windsor, Ont.

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* To pass Supplemental Examination.
† Matriculation Conditioned.

* McGuire, Gordon, Westmount, Que.
* Gooding, Winfield N., St. Philip's, Barbados, B.W.I.
* Hamel, Edouard, Quebec, P.Q.
* Forbes, John H., Montreal, Que.
* Smith, Randolph R., Montreal, Que.
* Mohan, Richard J., Brockville, Ont.
* Rogers, Henry G., Peterboro, Ont.

ADMITTED TO THE DEGREE OF MASTER OF SCIENCE.

(In Course.)

Brown, Frederick Baylis, B.Sc., Montreal.
Cardew, John Haydon, B.Sc., Insein, India.
Chaplin, Charles John, B.Sc., Westmount.
Cole, George Herbert, B.Sc., Ottawa, Ont.
Gale, George Gordon, B.Sc., Quebec.
Johnson, Frederick Murray Godschall, B.Sc., Montreal.
McCaskill, Kenneth, B.Sc., Vankleek Hill, Ont.
McKay, Frederick Alexander, B.Sc., Montreal.
McPhee, James McDonald, B.Sc., Loch Katrine, N.S.

ADMITTED TO THE DEGREE OF DOCTOR OF SCIENCE.

Ira G. Hedrick, M.Sc., Kansas City, Mo., U.S.A.

STANDING IN THE SEVERAL SUBJECTS.

ALTERNATING CURRENTS AND ALTERNATING CURRENT MACHINERY.

Fourth Year.—Class I.—Boyle and Harris, equal. *Class II.*—MacDermott, Cropper, Wheaton, Burpee, Scouler, Campbell; Findlay and Glassco and Redpath, equal; Drinkwater. *Class III.*—Cunha, Willard, Archibald; Johnstone and Ross, equal; Bowness and Wright, equal; Joseph and Price, equal; McLean, Bedwell.

ARCHITECTURAL DRAWING.

First Year.—Class I.—Dowswell; Rutton and Wood (A. C.), equal. *Class II.*—None. *Class III.*—Archibald (H. M.).

ARCHITECTURAL ENGINEERING.

Third Year.—Class I.—None. *Class II.*—Blackader, Anglin.

ARCHITECTURAL FORMS (THEORY AND EVOLUTION OF).

Second Year.—Class III.—Robb.

ARCHITECTURE (HISTORY OF).

Second Year.—Class II.—Robb.

ASSAYING (FIRE).

Third Year.—Class I.—Wilson. *Class II.*—Howell; Harvie (R.), and Winter, equal; Davidson. *Class III.*—Cole (L. H.), Sharp; Dickenson and McMeekin, equal; Cowen and Dunning, equal; Burnett; Cole (G. E.) and Young, equal; Wickware.

* To pass Supplemental Examination.

ASTRONOMY.

Third Year.—Class I.—McLachlan, Piers, Pedley. *Class II.*—Clawson and McConkey, equal; Brunner, McCuaig; Macnab and Sharp, equal; Dickenson and McMeekin, equal *Class III.*—Cole (L. H.); Burnett and Cowen, equal; Hadley and Howell, equal; Ritchie and Winter, equal; Anderson and Newton and Wickware, equal; Slater, Cole (G. E.).

BUILDING TRADES.

Second Year.—Class II.—Robb.

CHEMISTRY.

Second Year.—Class I.—Lamb, Kingston, Bell (W. P.), Shearer, Woodyatt, Foster; Elliott and Kenyon, equal. *Class II.*—Macdonald (W. M. B.) and Seaborn and Sproule, equal; Beaton and Davis and Munn, equal; Riddell, Hall, Whitcomb; Griffin and Norton, equal; Brown (S. B.); Hayes and Holloway and Wark, equal; Drummond and Miller, equal; Macaulay and Racey, equal; Hepburn and Westland, equal; Brooks and McCuaig (S.), equal. *Class III.*—Black and Ellis and Martin and Spafford, equal; Gamble; Carney and Mulock and Trimingham and Wheaton, equal; Hargrave and Haughton and Maxwell and Morrow and Patterson, equal; Brown (W. G. B.) and Callaghan, equal; Estey and McCallum and Macdonald (R. R.), equal; Conway and Moyse and Ryan, equal; Richards (E. L.) and Werner and Williams, equal; Engel; Phillips and Wilson, equal; Beckwith and McKinnon (J. A.), equal; Mulligan, Haskell, Brown (L. O.); Barclay (C. H.) and Hay and MacKay (R. M.), equal; Frith and Little and MacKay (G. W.), and McKinnon (H. D.) and Otty and Renaud and Seely, equal.

CHEMISTRY (ELECTRO).

Fourth Year.—Class I.—Findlay, Harris, Wheaton. *Class II.*—Burpee; Archibald and Glassco, equal; Willard, Johnstone, Bray, Bedwell, Joseph, Ross, Bowness. *Class III.*—Mundy, Campbell, Price, Wright.

CHEMISTRY—INDUSTRIAL.

Third Year.—Class I.—Wilson. *Class II.*—Jones; Harvie (R.), Churchill. *Class III.*—Davidson.

CHEMISTRY—ORGANIC (PRACTICAL).

Third Year.—Class I.—None. *Class II.*—Davidson. *Class III.*—Harvie (R.), Jones, Wilson.

CHEMISTRY—ORGANIC (THEORETICAL).

Third Year.—Class I.—Jones. *Class II.*—Wilson. *Class III.*—Davidson and Harvie (R.), equal.

CHEMISTRY—PHYSICAL (PRACTICAL).

Third Year.—Class I.—None. *Class II.*—Jones.

CHEMISTRY—PHYSICAL (THEORETICAL).

Third Year.—Class I.—None. *Class II.*—None. *Class III.*—Jones.

CONTINUOUS CURRENT MACHINERY.

Third Year.—(*Electrical Engineering Course*).—*Class I.*—Gray, Lea; Brennan and Thomas, equal. *Class II.*—Dougherty; Durland and Harvie (J.), equal; Christie and Walker, equal. *Class III.*—Gurd; Hibbard, Forbes, Beaubien; Barrington and Corrigan, equal; Purdy, Mudge; Higgins and Tupper, equal. (*Mechanical Engineering Course*).—*Class I.*—Loudon. *Class II.*—Pippy; Brady and Presner, equal; Ryan. *Class III.*—Black; Jackson and Kirkpatrick, equal; Norton, Emmerson, Turley, Taylor, Benedict.

DESCRIPTIVE GEOMETRY.

Third Year.—*Class I.*—McConkey and McLachlan, equal. *Class II.*—Piers, Brunner; Clawson and Pedley, equal. *Class III.*—McCraig, Hadley; Anderson and Macnab and Slater, equal; Blackader and Newton, equal.

Second Year.—*Class I.*—Bell (W. P.) and Kenyon and Lamb and Racey and Shearer and Sproule, equal; Brooks, Riddell, Wright, Griffin; Brown (S. B.) and Carney, equal; Mulock, Miller; Davis and Hargrave, and Kingston, equal; Trimingham. *Class II.*—Brown (W. G.) and Macaulay and Whitcomb, equal; Macdonald (R. R.) and Williams, equal; Howe, Gamble, Munn; Hay and Holloway and Westland, equal; Callaghan and Woodyatt, equal; Foster and Martin and Wilson, equal. *Class III.*—Norton, Wark, Engel, Estey, Black, Lathe, Otty; Conway and Drummond and Hall and Robb, equal; McCallum, Daly, Maxwell; Brown (W. G. B.) and Macdonald (W. M. B.), equal; Beaton and Hepburn and Killam and Mulligan and Werner, equal.

Passed.—Bray, Hadley, McDonald (H. F.), Presner, Roger (A.), Scott (W. G.), Slater.

First Year.—*Class I.*—Fox and Guillet and Herbert and Kearney and Lighthall and Parham, equal; Dowswell; Hattie and Rogers, equal; Carmichael and Johnston, equal; Campbell, Whyte, Davies, Harris, McBeath, Green; D'Aeth and Kerr and Pitts, equal; Vipond, Grahame (D. F.), Wood (A. C.). *Class II.*—Lundy, Murphy; Moore (W. J.) and Stitt, equal; Bristol; Dalton and de la Vega and Robertson, equal; Hodge and Shanks, equal; Venables, Scott, Irwin; Cummins and Morrin and Turnbull, equal; Pratt and Spencer, equal; Dawson, Dick; Ballantyne and Nicolls, equal; Cameron, Winslow; Baird and Heywood and Kennedy (E. I.), equal; Richardson. *Class III.*—Lomer and Morrison, equal; Ruttan; Smith and Whitton, equal; Ross (C. M.), Letourneau, Montgomery, Anderson, Dickson, Graham (J. R.); Drysdale and Goodchild, equal; Montague and Ross (D.), equal; Ahern and Brennan and Forbes (J. H.) and Mohan and Saunders and Whitcher and Younger, equal.

DESIGNING.

Fourth Year.—(*Civil Engineering Course*).—*Class I.*—Fyshe, Kydd. *Class II.*—Hogan, Jewett, Idsardi, Jost. *Class III.*—Hamilton, Putnam. (*Electrical Engineering Course*).—*Class I.*—Boyle and Burpee and Harris, equal; Cropper and MacDermot, equal; Ross and Willard, equal. *Class II.*—Johnstone; Cunha and Wheaton, equal; Archibald; Findlay and Mundy, equal; Scouler, Campbell. *Class III.*—Bedwell and Bowness and Piche, equal; Wright; Drinkwater and Glassco, equal; Bray and McLean and

Price, equal; Joseph and Redpath, equal; Weagant. (*Mechanical Engineering Course*).—*Class I.*—Gillies and Leonard, equal; MacMillen. *Class II.*—Turnbull, Cockshutt, Sutherland. *Class III.*—MacCarthy and Miner, equal.

DYNAMICS OF MACHINES.

Fourth Year.—*Class I.*—MacMillan, Gillies. *Class II.*—Leonard and Sutherland, equal. *Class III.*—Turnbull, Cockshutt, MacCarthy, Miner.

Third Year.—*Class I.*—Lea, Pippy, Loudon; Harvie (J.) and Walker, equal; Barrington and Durland, equal. *Class II.*—Christie, Gurd; Black and Purdy, equal; Norton, Mudge; Jackson and Taylor, equal; Brennan and Kirkpatrick, equal; Forbes. *Class III.*—Tupper, Ryan, Brady; Higgins and Turley, equal; Hall and Hibbard and Thomas, equal; Beaubien and Presner, equal; Boyd and Cram, equal.

ELECTRIC LIHTING AND POWER DISTRIBUTION.

Fourth Year.—*Class I.*—Boyle, MacDermott, Harris, Ross, Scouler. *Class II.*—Glassco, Burpee, Cropper; Wheaton and Willard, equal; Findlay and Price, equal; Johnstone, Archibald, Campbell. *Class III.*—Bowness and Cunha, equal; Redpath; McLean and Wright, equal; Joseph, Bedwell, Drinkwater.

ELECTRICAL MEASUREMENTS.

Third Year.—*Class I.*—Gray, Barrington. *Class II.*—Harvie (J.), Dougherty, Purdy, Christie, Hall, Forbes, Thomas, Boyd, Walker. *Class III.*—Brennan, Mudge, Lea; Beaubien and Durland, equal; Higgins and Tupper, equal; Corrigan and Hibbard, equal; Cram, Slavin, Gurd, Ross.

ELECTRIC TRACTION

Fourth Year.—*Class I.*—Boyle and MacDermott, equal; Scouler; Burpee and Willard, equal. *Class II.*—Glassco; Harris and Ross, equal; Cropper and Redpath, equal; Drinkwater, Wheaton, McLean; Findlay and Joseph, equal. *Class III.*—Bowness and Johnstone, equal; Cunha; Price and Wright, equal; Archibald and Bedwell, equal; Campbell.

ENGLISH COMPOSITION.

First Year.—(In alphabetical order).—Ahern, Archibald (D. W.), Archibald (E. M. B.), Ayre, Baird, Ballantyne, Brennan, Briegel, Bristol, Cameron, Campbell, Carmichael, Carter, Chambers, Christie, Cowan, D'Aeth, Dalton, Davies, Davis, Dawson, de la Vega, Descarries, Dick, Dickson, Doran, Dowswell, Doyle, Fielding, Forbes, Fox, Gilmour, Goodchild, Gooding, Graham (J. R.), Grahame (D. F.), Green, Gosselin, Guillet, Harris, Hattie, Herbert, Heywood, Hodge, Irwin, Johnston, Kearney, Kennedy (E. I.), Kennedy (H. C.), Kerr, Letourneau, Lighthall, Lomer, Lumsden, Lundy, Manny, McBeath, McCallum, McDougall, McGuire, Melhuish, Meyerstein, Mills, Mohan, Montague, Moore (W. J.), Morrin, Murphy, Nicolls, O'Keefe, Paquet, Parham, Pitts, Pratt, Raphael, Richardson, Robertson, Rogers, Ross (A. H.), Ross (C. C.), Ross (C. M.), Ross (D.), Saunders, Scott, Shanks, Smith, Spencer, Stitt, Taylor, Tessier, Trenholme, Turnbull, Vallillee, Vipond, Whyte, Wilson, Winslow, Wood (J. R.), Younger.

ENGLISH SUMMER READING.

Second Year.—Class I.—Elliott, Lamb, Munn. *Class II.*—Sproule, Brooks; Beaton and Morrison, equal; Little, Trimingham. *Class III.*—Brown (L. O.) and Kingston, equal; Holloway and Seely, equal; Morrow and Westland, equal; Allan; Gamble and Haskell and Lynch and McCallum and Mulock, equal; Haughton and Martin, equal; Macaulay and Strumbert, equal; Otty and Pringle, equal; Hall and Hay and Kenyon and Miller and Rogers and Williams, equal; Beckwith and Hepburn and Riddell and Robb, equal; Drummond and MacKinnon (J. A.) and Racey, equal; Broidy and Brown (L. O.) and Ellis and Howe and Matthews and Maxwell and Millen and Montgomery and Moyse and Patterson and Renaud and Richards and Scovil and Spafford and Whitcomb and Wilson and Woodyatt, equal.

FREEHAND DRAWING.

Third Year.—(*Architectural Course*).—*Class I.*—Blackader.
Second Year.—(*Architectural Course*).—*Class I.*—Robb (F. G.)
First Year.—(*Architectural Course*).—*Class I.*—Wood (A. C.). *Class II.*—Archibald (H. M.) and Ruttan, equal.
First Year.—Class I.—Drysdale, Stitt; Edgell and Whitton, equal; Dowswell and Herbert and Vipond, equal; Johnston and Kearney and Wilson, equal; McDougall and Venables, equal; Brennan and Robertson, equal; Parham and Ross (A. H.), equal; Ahern and Guillet and Pease and Rogers, equal; Dawson; Briegel and Spencer, equal. *Class II.*—Dalton and Green and Whyte, equal; de la Vega and Whitcher, equal; Cameron and Doyle and Fox and Hattie and Kerr and Lighthall and Melhuish and Winslow, equal; Ballantyne and Graham (J. R.), equal; Murphy and Richardson, equal; Goodchild and Ross (C. M.) and Turnbull, equal; Dickson and Hodge and Kennedy (E. I.) and Younger, equal; D'Aeth and Letourneau and Lundy and Pitts, equal; Paquet; Bristol and Kennedy (H. C.) and Wood (J. R.), equal. *Class III.*—Carter and Gilmour and McCallum and McGuire and Ross (C. C.) and Saunders, equal; Anderson and Ayre and Baird and Carmichael and Carson and Christie and Davies and Irwin and Shanks, equal; Archibald (D. W.) and Cummins and Taylor, equal; Heywood and Mills and Tessier, equal; Dick and Fielding and Moore (W. J.) and Nicolls and Pratt and Smith, equal; Gosselin and Harris and Montague and Parker and Raphael, equal; Descarries and Manny and O'Keefe and Scott and Thompson, equal; Davis and McBeath and Moore (A. W.) and Morrin, equal; Campbell and Meyerstein and Virtue, equal.
Passed.—Kenyon, Morrow, Scovil, Zimmerman.

GAS ANALYSIS.

Third Year.—Class I.—Brown (W. G.), Lathe. *Class II.*—Jones.

GEODESY.

Fourth Year.—Class I.—Fyshe. *Class II.*—Kydd, Jost, Jewett. Class *III.*—Putman, Idsardi, Healy, Hamilton (W.).

GEODETIC FIELDWORK.

Fourth Year.—Class I.—Fyshe and Jewett, equal; Kydd; Jost and Putman, equal. *Class II.*—Hamilton (W.) and Hogan and Idsardi, equal. *Class III.*—Healy.

GEOLOGY.

Third Year.—Class I.—Robertson. *Class II.*—Harvie (R.); Piers and Wilson, equal; Brunner, McMeekin; Clawson and McLachlan, equal; Cole (G. E.) and Jones, equal; Anderson and Dunning, equal; Ritchie; Macnab and Winter, equal. *Class III.*—Churchill and McCuaig, equal; Cole (L. H.); Howell and McConkey and Pedley, equal; Sharp, Cowen, Dickenson, Slater, Davidson; Hadley and Wickware, equal; Newton.

GRAPHICAL STATICS.

Third Year.—Class I.—McConkey, McCuaig, Kirkpatrick, Clawson, Thomas, Brennan; Macnab and Mudge, equal. *Class II.*—Barrington; Lea, Hadley; Durland and Pedley and Walker, equal; Durkee; London and McLachlan and Piers, equal; Gurd; Dougherty and Hall, equal; Jackson; Beaubien and Cram and Turley, equal; Wickware; Harvie (J.) and Pippy, equal; Batchelder and Christie, equal. *Class III.*—McMeekin and Newton, equal; Purdy; Higgins and Howell and Pinch and Presner, equal; Ryan and Tupper, equal; Cole (L. H.) and Forbes, equal; Anderson and Brady and Dickenson and Winter, equal; Black and Burnett and Corrigan, equal; Brunner, Slater, Cole (G. E.); Harding and Ritchie and Taylor, equal; Ross, Sharp, Boyd, Ewens; Bedwell and Benedict, equal.

HYDRAULICS.

Fourth Year.—(Full Course).—Class I.—Boyle, MacDermott, MacMillen, Cunha, Fyshe, Redpath. *Class II.*—Cropper; Drinkwater and Sutherland, equal; Jewett and Kydd and Leonard, equal; Hogan, Cockshutt, Gillies. *Class III.*—Hamilton (W.), Turnbull, McLean, Putman; Jost and MacCarthy, equal; Idsardi and Scouler, equal. *(Partial Course).—Class I.*—Wheaton. *Class II.*—Forbes, Findlay, Harris, Willard, Campbell, Blanchet; MacDougall, Bowness. *Class III.*—Mundy, Ross, Archibald; Glassco and Weagant and Wright, equal; Burpee, Bedwell, Price; Joseph and Sharpe, equal; Johnstone, Bray, Martin.

HYDRAULIC MACHINERY.

Fourth Year.—Class I.—Kydd and Willard, equal; Boyle and Fyshe and Leonard and Redpath and Sutherland and Wheaton, equal; Glassco and Turnbull, equal; MacDermott and Bowness and Scouler, equal. *Class II.*—Archibald and Cockshutt and Findlay and Forbes and Gillies and Harris and MacDougall, equal; Cropper and Putman, equal; Drinkwater and Hamilton and Jewett and Jost and Price, equal; Burpee and Campbell and Cunha and Johnstone and MacMillen, equal; Hogan and Miner and Mundy, equal. *Class III.*—Idsardi and McLean and Ross and Sharpe, equal; Piche; Bedwell and Wright, equal; MacCarthy; Blanchet and Bray and Martin and Weagant, equal.

KINEMATICS OF MACHINES.

Second Year.—Class I.—Wright; Killam and Munn and Riddell, equal. *Class II.*—Griffin Wark, Foster, Woodyatt, Shearer, Renaud, Whitcomb, Williams. *Class III.*—Engel and Macdonald (R. R.), equal; Callaghan, Hargrave, Kenyon, Trimingham, Brown (S. B.), Hall, Maxwell, Norton; Haskell and Hepburn, equal; Barclay (C. H.) and McCuaig (S.), equal.

Fourth Year.—(*Chemical Laboratory*).—(*Mining and Metallurgical Courses*).—*Class I.*—Forbes. *Class II.*—Hamilton (A. M.), Martin, McDougall. *Class III.*—Sharpe.

Third Year.—(*Chemical Laboratory*).—*Class I.*—Davidson, Robertson. *Class II.*—Seaborn and Wilson, equal; Jones, Harvie (R.), Churchill.

Second Year.—(*Chemistry Course*).—*Class I.*—Eliott, Spafford. (*Civil, Electrical and Mechanical Engineering Courses*).—*Class I.*—Bell (W. P.); Carney and Gamble and Lamb and Miller, equal; Hay and Hall and Kenyon and Racey, equal; Brown (W. G. B.) and Riddell and Whitcomb and Williams, equal; Black and Haskell and Munn, equal; Beaton and Holloway and McKinnon (J. A.) and Little and Shearer, equal; McCallum and McKay (R. M.) and Mulligan, equal. *Class II.*—Brooks and Trimingham, equal; Barclay (M. D.) and Brown (S. B.) and Morrow and Rogers and Westland and Wheaton, equal; Beckwith and Callaghan and Davis and Hepburn and McKinnon (H. D. and Mulock and Otty, equal; Estey and Macdonald (W. M. B.), and Renaud, equal; Allan and Richards (E. L.) and Scovil and Woodyatt, equal; Archibald (E. M. B.) and Brown (L. O.) and Engel and Griffin and Seely, equal; Frith. *Class III.*—Daly and Martin, equal; Foster and Maxwell, equal; Forbes; Wark and Werner, equal; Lynch and Wilson, equal. (*Mining Engineering Course*).—*Class I.*—Sproule; Conway and Kingston, equal; Hayes, Macaulay, Drummond. *Class II.*—Haughton; Bell (V.) and Downey, equal; Patterson and Phillips, equal.

Fourth Year.—(*Electrical Engineering Laboratories*).—*Class I.*—Boyle and Burpee, equal; Cropper and Johnstone and Ross and MacDermott and Wheaton, equal; Findlay and Harris and Willard, equal. *Class II.*—Archibald and Campbell and Mundy and Scouler, equal; Drinkwater and Glassco and Price, equal; Bedwell and Bowness, equal; Cunha and McLean and Wright, equal. *Class III.*—Joseph and Redpath, equal; Bray and Piche and Weagant, equal.

Third Year.—(*Electrical Engineering Laboratories*).—(*Electrical Engineering Course*).—*Class I.*—Durland and Gray, equal; Harvie (J.) and Thomas, equal. *Class II.*—Barrington and Boyd and Brennan, equal; Lea and Tupper, equal; Dougherty and Mudge, equal; Gurd and Walker, equal; Durkee and Purdy, equal. *Class III.*—Corrigan and Forbes, equal; Batchelder and Beaubien and Hall, equal; Hibbard; Christie and Cram, equal; Higgins. (*Mechanical Engineering Course*).—*Class I.*—Brady; Loudon and Pippy, equal; Norton. *Class II.*—Presner; Black and Jackson, equal. *Class III.*—Kirkpatrick, Ryan, Emmerson; Barclay (C. H.) and Budden, equal; Taylor and Turley, equal; Benedict and Pinch, equal.

Fourth Year.—(*Geodetic Laboratory*).—*Class I.*—Jost and Kydd and Putman, equal; Fyshe and Jewett, equal. *Class II.*—Hamilton (W.) and Healy and Hogan and Idsardi, equal.

Fourth Year.—(*Hydraulic Laboratory*).—*Class I.*—Turnbull; Campbell and Cockshutt and Gillies and Johnstone and Kydd and Leonard and MacMillen and Price and Redpath and Sutherland and Wheaton, equal. *Class II.*—Cropper and Drinkwater and Glassco and Harris and Jost and MacDermott and Miner and Scouler, equal; Archibald and Bedwell and Findlay and Idsardi and McLean and Putman and Ross, equal; Bowness and Forbes and Fyshe and Jewett and McDougall and Piche and Weagant and Willard, equal; Burpee and Cunha and Mundy and Wright, equal; Boyle and Brady and Hamilton (W.) and Martin and MacCarthy, equal. *Class III.*—Blanchet and Sharpe, equal; Joseph, Hogan.

Fourth Year.—(*Mechanical Engineering Laboratory*).—*Class I.*—Leonard. *Class II.*—Sutherland, MacMillen, Gillies. *Class III.*—Turnbull; Cockshutt and Miner, equal.

Fourth Year.—(*Metallurgical Laboratory*).—*Class I.*—None. *Class II.*—McDougall, Forbes, Hamilton (A. M.), Martin. *Class III.*—Blanchet.

Fourth Year.—(*Mining and Metallurgical Laboratories*).—*Class I.*—Forbes, McDougall. *Class II.*—Martin, Blanchet. *Class III.*—Hamilton (A. M.), Sharpe.

Second Year.—(*Physical Laboratory*).—(*Architectural, Chemical, Civil, Mechanical, Metallurgical and Mining Courses*).—*Class I.*—Bell (W. P.) and Miller and Mulock and Munn and Racey, equal; Lamb; Conway and Gamble and Hayes and Kingston, equal; Carney and Davis and Holloway and Maxwell and Riddell, equal; Callaghan and Brooks and Foster and Hall and Lynch and Moyse and Ryan, equal; Drummond; Daly and Hay and Otty and Phillips and Sproule and Wilson, equal; Beaton and Bell and Black and Killam and Macaulay and Wheaton, equal; Dunning and Morrison, equal. *Class II.*—Hepburn and Martin, equal; Ellis and McCallum and Werner, equal; Haughton and Howe and Scovil, equal; Filer and McKinnon (J. A.) and Westland, equal; Elliott and Beckwith and Estey and Frith and Renaud and Rogers and Seaborn and Spafford, equal; Downey and Forbes and Montgomery and Patterson and Whitcomb, equal; McKinnon (H. D.) and Morrow, equal; Barclay (M. D.), Brown (L. O.). *Class III.*—MacKay. (*Electrical Engineering Course*).—*Class I.*—Kenyon and Shearer, equal; Hargrave, Wright, Richards, Haskell and Woodyatt, equal; Griffin and Seely, equal; Brown (S. B.), Little; Mulligan and Trimingham and Wark, equal. *Class II.*—Engel, McCuaig (S.), Williams. *Class III.*—Allan; Archibald (E. M. B.) and Paulsen, equal.

First Year.—(*Physical Laboratory*).—*Class I.*—Herbert, Fox; Davies and Guillet, equal; Parham; Heywood and Pitts and Pratt, equal; Forbes; Christie and Irwin, equal; Rogers and Ross, equal; Ayre and Baird and Brennan and Hattie and Johnson and Kearney and Vipond, equal; Cameron and Hendry and Hodge and Whyte, equal; Bristol and McBeath and McGuire and Shanks, equal. *Class II.*—Dowswell and Pease, equal; Ballantyne and Briegel and Dalton and Dick and Grahame (D. F.) and Jordan and Lighthall and Mohan and Montague and O'Keefe, equal; Cummins and Davis and Edgell and Green and Gosselin and Scott and Smith and Taylor, equal; Campbell and Carmichael and Descarries and Gooding and Lundy and Richardson and Ross and Wilson, equal; Carter and Graham (J. R.) and Harris and Kerr and Robertson, equal; Dawson and de la Vega and Melhuish and Murphy, equal; Anderson and Doran and Kennedy (H. C.) and Letourneau and Lomer and Lumsden and Meyerstein and Morrin and Saunders and Turnbull and Younger, equal; Drysdale and McCallum and Nicholls and Spencer and Tessier, equal; Raphael and Seaborn, equal; Babington and Cowan and Manny and Mills and Moore (W. J.), equal. *Class III.*—Crocker and D'Aeth and Kennedy (E. I.) and Winslow, equal; Ross and Virtue and Wood, equal; Carson and Chambers and Dickson and Doyle and Fielding and Thompson, equal; Archibald (D. W.) and Stitt, equal; Ahern and Gomes and Paquet and Ross (C. C.) and Trenholme and Venables, equal; Goodchild, Whitcher, Vallillee, Whitton.

Fourth Year.—(*Testing Laboratory*).—*Class I.*—Fyshe, Kydd, Jost, Idsardi; Hamilton (W.) and Jewett, equal. *Class II.*—Putnam, Hogan.

Third Year.—(*Testing Laboratory*).—*Class I.*—Durland, McCuaig; Brennan and Macnab and Piers and Turley, equal; Hall and Lea and London and McConkey, equal; Barrington and Brady and Brunner and Presner, equal; Cole (L. H.) and Gurd, equal.

Class II.—Clawson and Forbes and Kirkpatrick, equal; Christie and Howell, equal; Anderson and Harvie (J.) and McLachlan and McMeekin and Purdy and Ross, equal; Beaubien and Burnett and Mudge and Pedley and Ryan and Thomas, equal; Benedict and Hadley, equal; Boyd and Cole (G. E.) and Ritchie and Sharp and Taylor, equal; Budden and Cram and Pinch, equal; Corrigan and Dickenson and Dougherty and Pippy, equal; Batchelder and Emmerson and Ewens and Higgins and Newton and Slater, equal; Black and Jackson and Tupper, equal. *Class III.*—Cowen, Young, Walker, Hibbard, Winter, Wickware.

LETTERING.

First Year..—Class I.—Kearney; Dowswell and Venables, equal; Parham; Goodchild and Guillet and Johnston and Pease and Trenholme, equal; Herbert and Irwin and Rogers, equal; Ahern and Fox and Pitts, equal; Hattie and McDougall, equal; Cummins and Drysdale and Spencer and Stitt and Vipond, equal; Davies and Kennedy (H. C.) and Manny and Richardson, equal; Dalton and Edgell and McBeath, equal. *Class II.*—Christie, Carter; Ross (C. M.), Shanks and Thompson, equal; Bristol and Doyle and Gosselin and McGuire and Robertson and Wilson, equal; Dawson and Saunders, equal; Dick and Dickson and Lomer and Turnbull, equal; Baird and de la Vega and Lumsden and Melhuish, equal; Archibald (D. W.) and Ballantyne and Briegel and Murphy and Ross (A. H.) and Younger, equal; Brennan and Cameron and D'Aeth and Whitton, equal; Harris and Heywood and Kerr and McCallum, equal. *Class III.*—Graham (J. R.); Fielding and Paquet and Winslow, equal; Green and Hodge and Kennedy (E. I.) and Lighthall and Nicolls and Wood (J. R.), equal; Montague and Taylor and Whitcher, equal; Campbell and Ross (D.) and Scott, equal; Carmichael and Gooding and Mills and Tessier and Whyte, equal; Davis and Lundy and Pratt and Raphael and Ross (C. C.), equal; Anderson and Ayre and Mohan and Morrin, equal; Descarries, Gomes.

MACHINE DESIGN.

Fourth Year.—(Electrical Engineering Course.)—Class I.—Willard. *Class II.*—Boyle and Burpee, equal; Archibald, Drinkwater and Harris, equal; Redpath, MacDermott, Wheaton, Scouler, Bowness, Findley. *Class III.*—Glassco and Johnstone, equal; Campbell and Cropper, equal; Cunha and Piche, equal; Price; Mundy and Weagant, equal; Ross, Bedwell; Bray and Wright, equal; Joseph and McLean, equal. *(Mechanical Engineering Course).—Class I.*—None. *Class II.*—Leonard, Sutherland. *Class III.*—Turnbull, MacMillen; Gillies and Miner, equal.

Third Year.—(Electrical and Mechanical Engineering Courses).—Class I.—None. *Class II.*—Durland; Kirkpatrick and Lea, equal; Brennan and Gurd, equal; Walker. *Class III.*—Benedict, Jackson, Mudge; Barrington and Pippy, equal; Thomas; Cram and Presner and Turley, equal; Boyd; Brady and Forbes and Loudon, equal; Purdy; Corrigan and Emmerson and Hall and Harvie (J.) and Norton and Ryan, equal; Christie; Black and Ross, equal.

MACHINE DESIGN AND THERMODYNAMICS.

Third Year.—(Mining Engineering Course).—Class I.—None. *Class II.*—Sharp, Burnett. *Class III.*—Wickware, Dickenson, Winter; Cole (G. E.) and Howell and Young, equal; Ritchie.

MAPPING.

Third Year.—(Civil Engineering Course).—Class I.—None. *Class II.*—McConkey, McCuaig, Pedley, McLachlan, Piers; Anderson and Hadley, equal; Clawson, Macnab, Brunner. *Class III.*—Slater,

Newton. (*Mining Engineering Course*).—*Class I.*—None. *Class II.*—Ritchie; Cole (G. E.) and Wickware, equal; McMeekin and Sharp, equal. *Class III.*—Burnett and Cole (L. H.), equal; Dickenson and Howell and Winter, equal; Cowen and Young, equal.

Second Year.—(*Architectural and Mining Engineering Courses*).—*Class I.*—Hayes and Kingston, equal; Sproule, Macaulay, Philips. *Class II.*—Patterson, Drummond. *Class III.*—Conway, Haughton, Bell (V. H. G.), Blackader, Montgomery, Dunning. (*Civil Engineering Course*).—*Class I.*—Hay and Lamb, equal; Bell (W. P.), Gamble, Brooks, Moyse, Barclay (M. D.), Estey, Holloway. *Class II.*—Beaton and Miller, equal; Racey, Lynch, McKinnon (H. D), Westland, Otty, Martin; Brown (L. O.) and McKinnon (J. A.) and Wheaton, equal. *Class III.*—Davis and Morrow, equal; Daly; Black and Carney and Wilson, equal; Millen, Mather, Strumbert, Howe, Frith.

Passed.—Mulock, McCallum, Ryan.

MATHEMATICS.

Third Year.—(*Calculus, etc.*).—*Class I.*—Lea, Christie, Barrington; Gray and Jackson, equal. *Class II.*—Durkee and Piers, equal; Howell, Pedley, Walker, Gurd. *Class III.*—Brady and Brennan and Ryan, equal; Pippy, McLachlan and McMeekin, equal; Clawson and Tupper, equal; Winter; Boyd and Cram and Loudon and Presner, equal; Black; Hibbard and Purdy, equal; Harvie (J.) and Norton, equal; Kirkpatrick and Thomas, equal; McCuaig; Turley; Cole (G. E.) and Macnab and Ross, equal; Anderson; Beaubien and Benedict and Newton, equal; Batchelder and Dickenson and Durland and Forbes and Ritchie, equal; Wickware. (*Mechanics*).—*Class I.*—Lea, McLachlan, Christie, Piers, Gray. *Class II.*—Macnab, Barrington, Thomas, Brunner, Boyd, McMeekin. *Class III.*—Harvie (J.), Jackson; Norton and Pedley, equal; Kirkpatrick and Walker, equal; Durland and Purdy, equal; Brennan and Ryan, equal; Hibbard and Slater, equal; Clawson and Higgins, equal; Cole (G. E.) and Corrigan and Ritchie, equal; Anderson and Brady and Burnett and Turley, equal; Beaubien and Benedict and Black and Cram, and Dickerson and Forbes and Gurd and Loudon and Pippy and Presner and Tupper, equal.

Passed.—Idsardi.

Second Year.—(*Analytical Geometry*).—*Class I.*—Lamb, Bell (W. P.), Pringle, Kenyon and Munn, equal. *Class II.*—Kingston, Wark, Brown (W. G.), Riddell, Broidy; Griffin and Wright, equal; Miller and Shearer, equal; Brooks and Hargrave, equal; Carney; Elliott and Holloway, equal. *Class III.*—Brown (S. B.) and Brown (W. G. B.), equal; Racey, Wheaton, Lathe; Davis and Foster and Howe, equal; Black and Hall and Woodyatt, equal; Little and McCuaig (S.), equal; Gamble and Hepburn and Mulligan, equal; Brown (L. O.) and Macaulay and Martin, equal; Callaghan and McCuaig (D. R.), equal; Barclay (M. D.) and Estey and Westland, equal; Daly and Engel and Whitcomb, equal; Williams and Macdonald (R. R.), equal; Mulock; Beaton and Trimingham, equal; Allan and Morrow and Moyse and Sproule and Wilson, equal. (*Calculus*).—*Class I.*—Lamb, Bell (W. P.), Kilpatrick, Munn, Shearer; Brown (W. G.) and Wright, equal; Macaulay. *Class II.*—Riddell; Carney and Kenyon, equal; Lathe, Black, Miller, Martin, Brooks, Davis; Elliott and Woodyatt and Wark, equal. *Class III.*—Kingston, Hargrave; Mulock and Wheaton, equal; Sproule and Williams, equal; Gamble and Racey, equal; Hall; Estey and Howe, equal; Mac-

donald (R. R.) and Roger (A.), equal; MacKay (R. M.); Patterson and Westland, equal; Brown (S. B.) and Foster and Otty, equal; Beaton and Callaghan and Griffin, equal; Brown (W. G. B.) and Engel and Whitcomb, equal; Hepburn and Wilson, equal; Bell (V. H.) and Hayes and Holloway and McKinnon (J. A.) and Morrow and Moyse and Mulligan, equal. (*Mechanics*).—*Class I.*—Lamb, Pringle, Bell (W. P.). *Class II.*—Shearer and Wilson, equal; Miller, Wheaton, Griffin, Lathe; Brown (S. B.) and Kenyon and Riddell and Sproule, equal; Racey and Woodyatt, equal; Brown (W. G.) and Wright, equal; Brooks and Macaulay, equal; McKinnon (J. A.) and Hargrave and Wark, equal; Holloway and Kingston, equal. *Class III.*—Munn, Allan, Whitcomb; Carney and Williams, equal; Elliott, Foster; Morrow and Werner, and Westland, equal; Estey and Hepburn ,equal; Hall and Hayes and Martin, equal; Broidy and Ellis, equal; Davis; Baylis and Conway and Trimingham, equal; Little and MacKay (R. M.) and Moyse, equal; Barclay (M. D.) and Black and McCuaig (D. R.), equal; Brown, (W. G. B.) and Callaghan and Gamble and Mulligan and Slavin, equal.

First Year.—(*Algebra*).—*Class I.*—Harris, Davies, Kearney, Herbert, Rogers, Guillet, Fox, Parham, Graham (J. R.). *Class II.*—Bristol; Carmichael and Dalton, equal; Whyte, Baird; Hattie and Lighthall, equal; Irwin, Johnston, McBeath, Hamel; Gooding and Turnbull, equal; Dick and Richardson, equal. *Class III.*—Campbell; McGuire and Moore (W. J.) and Ross (C. M.) and Davis, equal; Ballantyne and Hodge and Montague, equal; D'Aeth, Whitton, Heywood; Dowswell and Younger, equal; Ahern and de la Vega and Kerr and Robertson, equal; Smith, Lundy; Forbes (J. H.) and Pratt and Stitt, equal; Cowan; Cameron and Dawson and Murphy and Vipond, equal; Manny and Pitts and Scott, equal; Green and Mohan and Ross (D.), equal; Saunders; Filer and Morrin and Shanks and Strumbert and Phillips and Whitcher and Winslow, equal. (*Dynamics*).—*Class I.*—Hattie, Kearney, Fox, Moore (W. J.), Herbert, Harris. *Class II.*—Guillet and Lighthall, equal; Johnston and Parham, equal; Carmichael and de la Vega and Whyte, equal; Campbell and Mather, equal; Pratt; Bristol and Stitt, equal; Davies, Shanks; McBeath and Turnbull, equal; Ross (C. M.), Murphy, Davis; Baird and Beaudry and Cameron and Rogers, equal; Dawson and Dowswell, equal; Kerr and Lundy, equal. *Class III.*—Hodge; Dick and Green and Heywood and Richardson, equal; Graham (J. R.); Gooding and Jordan, equal; Pitts and Whitton and Younger, equal; Smith; Ahern and Montgomery and Wood (J. R.), equal; Irwin and Morrin, equal; Ballantyne and Ross (D.), equal; Morrison; Ayre and McCallum and Ross (C C.), equal; Kennedy (H. C.); Descarries and Spencer and Trenholme, equal; Cowan and Forbes (J. H.) and Millen and Pease and Robertson, equal; Carter and Christie and McGuire and Scott, equal. (*Geometry*).—*Class I.*—Kearney; Fox and Parham, equal; Guillet and Harris, equal; Rogers. *Class II.*—Herbert; Carmichael and McBeath, equal; Davies and Stitt, equal; Hodge, Cameron; Hattie and Turnbull and Whyte, equal; Irwin and Moore (W. J.), equal; Johnston, Pitts, Vipond; Dick and Kerr and Lighthall and Ross (C. M.) and Shanks, equal; Dowswell and Montgomery, equal. *Class III.*—Baird and Ballantyne and Dalton, equal; Campbell and Pratt, equal; de la Vega and Morrison and Whitton, equal; Graham (J. R.) and Lundy, equal; Bristol, Chambers; Carlyle and Christie and Murphy, equal; Ahern and Cowen and Dawson and Richardson and Phillips, equal; Heywood and Morrin and Nicolls and Spencer,

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(*b*) *Supplemental in Solid Geometry.*
(*c*) *Supplemental in Conics.*

equal; D'Aeth and Forbes (J. H.) and Saunders and Wilson, equal; Filer and Mather and (c) Mohan, equal; (c) Hamel; (c) Gooding and Ross (D.) and (c) McGuire, equal; (b) Anderson and (c) Smith, and (b) Drysdale and (c) Davis and Raphael, equal. *(Trigonometry).—Class I.*—Harris, Herbert, Davies; Fox and Rogers, equal; Kearney and Lighthall, equal; Gooding. *Class II.*—Parham; Dalton and Johnston, equal; Guillet; Carmichael and Dick and Turnbull, equal; Irwin; Baird and McBeath, equal; Richardson and Whyte, equal; Kerr and Vipond, equal; Dowswell, Ahern. *Class III.*—Ballantyne and Mohan, equal; Scott, Saunders; Bristol and Campbell, equal; Filer; Cowan and Hamel and Moore (W. J.) and Pitts, equal; Ross (C. M.); Cameron and D'Aeth and Graham (J. R.), equal; Heywood; de la Vega and Morrison and Pratt, equal; Letourneau and McGuire, equal; Forbes (J. H.) and Davis, equal; Montague and Robertson, equal; Ross (D.); Morrin and Younger, equal; Green and Hattie and Stitt, equal.

MECHANICAL DRAWING.

Third Year.—Class I.—None. *Class II.*—Black, Presner, Pippy; Brady and Kirkpatrick, equal; Brennan. *Class III.*—Mudge, Beaubien; Christie and Ewens, equal; Jackson, Burnett; Durland and Harvie (J.) and Walker, equal; Hall and Boyd and Batchelder, equal; Benedict; Cole (G. E.) and Loudon and Turley, equal; Cole (L. H.) and Sharp, equal; Howell and Taylor, equal; Dickenson and Barrington and Lea and Ross and Wickware, equal; Corrigan, Forbes; Budden and Cram and Dougherty and McMeekin and Ryan and Thomas and Tupper, equal.

Second Year.—Class I.—Williams, Callaghan, Munn. *Class II.*—Riddell, Brown (S. B.), Griffin; Hall and Woodyatt, equal; Sproule, MacKay (G. W.), Foster, Shearer. *Class III.*—Hayes and Werner, equal; Brooks and Killam, equal; Brown (W. G.) and Engel, equal; Hepburn; Mulligan and Whitcomb, equal; Wark, Hargrave; Conway and Kingston, equal; Wright, Kenyon; Estey and Lathe and Maxwell, equal; Scovil; Haskell and Macaulay and Martin and Richardson and Trimingham, equal; Little and Macdonald (W. M. B.) and MacKay (R. M.), equal; Patterson; Carlyle and Drummond, equal; Allan and Haughton and Phillips and Renaud, equal.

MECHANICAL ENGINEERING.

Fourth Year.—(Civil, Electrical and Mining Engineering Courses).—Class I.—Boyle, Willard, Wheaton. *Class II.*—Glassco; Bowness and Johnstone, equal; Kydd and Price and Ross, equal; Cropper and Harris and Joseph, equal; Drinkwater and Forbes and Fyshe and MacDermott and Redpath, equal; Archibald and Cunha and Findlay and Jewett, equal. *Class III.*—Healy and Sharpe, equal; Burpee and Campbell and Piche, equal; Martin, McLean; Jost and Scouler, equal; Idsardi; McDougall and Weagant, equal; Putnam; Bedwell and Blanchet and Hamilton (A. M.) and Hamilton (W.) and Hogan, equal; Mundy and Wright, equal. *(Mechanical Engineering Course).—Class I.*—Sutherland. *Class II.*—Leonard, MacMillen. *Class III.*—Cockshutt, Turnbull, Gillies, Miner.

METALLURGY.

Third Year.—Class I.—Wilson. *Class II.*—Harvie (R.), Jones; Davidson and Robertson, equal; Burnett. *Class III.*—Wickware, Winter; Cowen and Howell, equal; Cole (G. E.), Cole (L. H.); McMeekin and Sharp, equal.

METALLURGY (ADVANCED).

Fourth Year.—*Class I.*—None. *Class II.*—Hamilton (A. M.).

METALLURGY (COPPER, LEAD, GOLD AND SILVER).

Fourth Year.—*Class I.*—None. *Class II.*—Hamilton (A. M.). *Class III.*—Forbes, Martin, Blanchet, McDougall, Sharpe.

METALLURGY (IRON AND STEEL).

Fourth Year.—*Class I.*—None. *Class II.*—Forbes, Hamilton (A. M.), Sharpe. *Class III.*—Blanchet and McDougall, equal; Martin.

METALLURGY (ELECTRO).

Fourth Year.—*Class I.*—None. *Class II.*—Martin, Blanchet, Forbes, Sharpe. *Class III.*—Hamilton (A. M.), McDougall.

MINERALOGY.

Fourth Year.—*Class I.*—Forbes. *Class II.*—McDougall. *Class III.*—Martin, Blanchet, Sharpe.

Third Year.—*Class I.*—Davidson. *Class II.*—Wilson, Robertson, Howell; Burnett and Harvie (R.), equal; Ritchie, Churchill, McMeekin. *Class III.*—Cole (G. E.); Dickenson and Sharp, equal; Dunning, Cole (L. H.); Wickware and Winter, equal; Cowen, Young.

MINERALOGY (DETERMINATIVE).

Third Year.—*Class I.*—Cole (G. E.). *Class II.*—Ritchie and Winter, equal; Howell. *Class III.*—Burnett and Davidson and Dunning, equal; Cole (L. H.) and Sharp, equal; Churchill and Young, equal; Cowen and Dickenson and Wilson, equal; McMeekin, Wickware. (*Summer Session*).—*Class I.*—Harvie (R.) and Robertson, equal.

MINING.

Fourth Year.—*Class I.*—Forbes. *Class II.*—McDougall, Martin. *Class III.*—Sharpe, Blanchet.

Third Year.—*Class I.*—Dunning and Winter, equal; Cole (L. H.) and Howell, equal. *Class II.*—Burnett. *Class III.*—Dickenson and McMeekin, equal; Sharp, Cowan, Cole (G. E.), Wickware.

MINING DESIGN AND MINING AND METALLURGICAL MACHINERY

Fourth Year—*Class I.*—Forbes. *Class II.*—McDougall. *Class III.*—Sharpe, Blanchet, Martin, Hamilton (A. M.)

MINING (SUMMER SCHOOL).

Fourth Year.—*Class I.*—Forbes. *Class II.*—Martin and Sharpe, equal; Blanchet, Hamilton (A. M.).

MUNICIPAL ENGINEERING.

Fourth Year.—*Class I.*—Jewett, Fyshe, Kydd. *Class II.*—Putnam, Jost. *Class III.*—Idsardi, Hamilton (S. W.).

Third Year.—*Class I.*—Clawson. *Class II.*—McLachlan, McCuaig, Anderson, Piers, McConkey; Brunner and Pedley, equal. *Class III.*—Hadley and Newton and Slater, equal; Macnab.

ORE DRESSING.

Fourth Year.—*Class I.*—Forbes. *Class II.*—Sharpe, Blanchet. *Class III.*—Hamilton (A. M.) and McDougall, equal; Martin.

Third Year.—*Class I.*—Sharp. *Class II.*—Cole (L. H.) and Cowan, equal; Wickware and Winter, equal. *Class III.*—Howell, Burnett, McMeekin, Dunning; Dickenson and Young, equal.

PRACTICAL GEOLOGY AND PHYSIOGRAPHY.

Fourth Year.—*Class I.*—Forbes. *Class II.*—McDougall, Sharpe. *Class III.*—Blanchet, Martin.

PHYSICS.

Second Year.—*Class I.*—Bell (W. P.), Lamb, Kingston, Griffin, Shearer. *Class II.*—Wright, Wark, Elliott, Kenyon Munn; Brooks and Holloway, equal; Foster and Woodyatt, equal; Brown (S. B.) and Sproule, equal; Davis; Carney and Seely, equal; Brown (W. G. B.) and Mulock, equal; Hall and Riddell, equal; Brown (L. O) and Miller and Racey and Werner, equal. *Class III.*—Black and Hayes and Whitcomb, equal; Trimingham, Wheaton; Hepburn and Killam and Wilson, equal; Beaton; Callaghan and Martin, equal; Gamble and Westland, equal; Archibald (E. M. B.) and McCuaig (S.), equal; Patterson and Richards (E. L.) and Williams, equal; McCallum, Beckwith, Allan; Hargrave and Hay and Macaulay and Macdonald (W. M. B.), equal; Maxwell; Engel and Estey and Haskell and Howe and Little and Phillips, equal.

First Year.—*Class I.*—Guillet and Herbert, equal; Campbell and Kearney, equal; Baird and Hattie, equal; Johnston and Parham and Rogers and Whyte, equal; Fox, Carmichael; Dick and Moore (W. J.), equal; Cameron, Vipond, McBeath. *Class II.*—Lighthall; Davies and Graham (J. R.), equal; Dalton and Kerr and Whitton, equal; Stitt, Pratt, Green, Irwin, Pitts; Ballantyne and Bristol, equal; Christie and Lomer and Ross (D.), equal; Hodge; Crocker and Davis, equal; D'Aeth and Harris, equal; Richardson; Shanks and Turnbull, equal; Ross (C. M.), Mather; Brennan and McGuire, equal. *Class III.*—Dawson and Lundy, equal; de la Vega and Gooding and Mohan and Pease and Younger, equal; Dowswell and Venables, equal; Forbes; Edgell and Vallillee, equal; Carter; Jordan and Morrin and Nicolls and Smith, equal; Cowen and Descarries, equal; Ayre and Goodchild and Grahame (D. F.) and Letourneau, equal; Anderson and Briegel, equal; Ahern and Robertson and Winslow, equal; Heywood; Cummins and Lumsden and Spencer, equal; Manny and Flanders, equal; Kennedy (H. C.); Drysdale and Henry and Montague and Murphy and Robb and Ross (C. C.) and Trenholme, equal.

QUALITATIVE ANALYSIS.

Third Year.—*Class I.*—Cowen, Dickenson; Winter. *Class II.*—Cole (G. E.), McMeekin, Young, Howell, Cole (L. H.). *Class III.*—Dunning, Sharp, Wickware, Burnett.

RAILWAY ENGINEERING.

Fourth Year.—*Class I.*—Fyshe, Jewett. *Class II.*—Kydd; Hogan and Jost, equal. *Class III.*—Healy, Putnam, Idsardi, Hamilton.

Third Year.—Class I.—None. *Class II.*—Pedley, Clawson; Brunner and Macnab and McLachlan, equal. *Class III.*—Piers, McCuaig, Anderson, McConkey, Hadley.

SANITATION AND HEATING.

Second Year.—Class III.—Robb.

SHOPWORK.

Fourth Year.—Class I.—Gillies; Leonard and Sutherland, equal; Turnbull; MacMillen and Miner, equal. *Class II.*—McCarthy, Cockshutt.

Third Year.—(Electrical and Mechanical Engineering Courses).—Class I.—None. *Class II.*—Black and Durland and Harvie (J.) and Pinch and Pippy and Thomas, equal; Gurd and Jackson and Kirkpatrick and Norton and Richards (W. A.) and Ross (D.), equal; Barrington and Beaubien and Benedict and Brennan and Cram and Emmerson and Forbes and Lea and Loudon and Presner and Turley and Walker, equal; Batchelder and Boyd and Brady and Christie and Corrigan and Hall and Mudge and Tupper, equal. *Class III.*—Dougherty and Ewens and Haskell and Hibbard and Ryan and Taylor, equal; Durkee and Purdy, equal.

Second Year.—(Civil and Mining Engineering Courses).—Class I.—Patterson, Hayes; Brown (W. G.) and Hamel, equal. *Class II.*—Bell (W. P.) and Kingston and McCallum (G. H.), equal; McCuaig (D. R.); Houghton and Lynch and Miller, equal; Carney and Davis and Estey and Hay and Martin and Macaulay and McKinnon (H. D.) and McKinnon (J. A.) and Sproule and Wilson, equal; Brooks and Brown (L. O.) and Drummond and McWilliams and Morrison and Moyse and Otty and Strumbert, equal. *Class III.*—Frith and Holloway and Westland, equal; Black and Racey, equal; Jordan and Phillips, equal; Beaton and Lamb and Lathe and Montgomery and Morrow, equal. *(Electrical and Mechanical Engineering Courses).—Class I.*—Williams. *Class II.*—Seeley, Riddell; Hepburn and Killam and Wark, equal; Hall (N. M.) and McCallum (G. H.) and Munn, equal; Brown (S. B.) and Engel and Foster and Hargrave and Kenyon and Wright, equal; Broidy and Griffin and Maxwell and MacKay (G. W.) and Shearer and Whitcomb, equal; Richards (E. L.) and Woodyatt, equal; Mulligan and Renaud and Trimingham, equal; Halliday and McCuaig (S.) and Macdonald (W. M.B.) and Scovil and Werner and Zimmerman, equal. *Class III.*—Beckwith and Callaghan, equal; Allan and Little, equal; Rogers, Archibald (E. M. B.).

First Year.—Class I.—Parham and Richardson, equal; Spencer; Dowswell and Dick and Dalton and Cummins and Herbert and Hodge and Lundy and Montague and Scott, equal; Carson and Johnston and Rogers and Venables, equal; Cameron and Crocker and Dawson and Shanks and Younger, equal. *Class II.*—Ayre and Davis and Davies and Edgell and Green and Guillet and Hattie, equal; Babington and Ballantyne and Brennan and Turnbull and Vipond and Whitton, equal; Forbes and Fox and Gosselin and Kearney and Kennedy (E. T.) and Kennedy (H. C.) and Robertson and Ross (C. C.) and Ross (C. M.) and Wilson, equal; Baird and Campbell and D'Aeth and Graham (J. R.) and Kerr and Lathe and Lighthall and McCallum (F. A.) and McGuire and Munn and Pratt, equal; Briegel and Drysdale and Lomer and McBeath and Melhuish and Meyerstein and O'Keefe and Ross (D.) and Taylor, equal; Christie and de la Vega and Dickson and Heywood and Mohan and Moore (W. J.) and Murphy and Pitts and Tessier and Virtue and Whyte and Winslow and Wood (J. R.), equal; Carter and Cowan and Descarries and McDougall

and Paquet and Raphael and Seely, equal; Bristol and Gomes and Goodchild and Harris and Manny and Morrin and Thompson, equal; Anderson and Carmichael and Doyle and Hendry and Irwin and Lumsden and Whitcher, equal; Nicholls. *Class III.*—Chambers and Fielding, and Gooding and Moore (A. W.) and Parker and Ross (A. H.) and Saunders and Smith, equal; Doran and Mills and Stitt, equal; Trenholme; Ahern and Vaillillee, equal; Archibald (D. W.); Wark.

STRUCTURAL DESIGNING.

Fourth Year.—*Class I.*—Kydd, Hamilton, Atkinson. *Class II.*—Healy and Jost and Putnam, equal; Idsardi, Fyshe, Jewett.

Third Year.—(*Architectural Course*).—*Class I.*—Anglin. *Class II.*—Blackader. (*Civil Engineering Course*).—*Class I.*—Clawson, McCuaig (G. E.), Anderson; McConkey and McLachlan and Newton and Pedley, equal; Piers; Brunner and Hadley, equal. *Class II.*—Slater; Baylis and Brown (W. G. B.) and Macnab, equal.

STRUCTURAL ENGINEERING.

Fourth Year.—*Class I.*—Fyshe and Kydd, equal. *Class II.*—Jewett, Putnam; Idsardi and Jost, equal. *Class III.*—Healy, Hamilton.

SUMMER WORK (ESSAYS).

Fourth Year.—(*Civil Engineering Course*).—*Class I.*—Hogan, Jost. *Class II.*—Jewett and Kydd, equal; Fyshe. *Class III.*—Hamilton (W.) and Idsardi, equal. (*Electrical Engineering Course*). —*Class I.*—Boyle and Harris, equal; Campbell and MacDermott, equal; Bedwell and Cropper and Findlay, equal; Wright. *Class II.*—Cunha and McLeish, equal; Mundy and Piche, equal; Bowness, Burpee. *Class III.*—Wheaton and Price, equal; Drinkwater and Glassco and Ross, equal; Redpath. (*Mechanical Engineering Course*).—*Class I.*—MacMillen; Archibald and Gillies and Gray and Johnstone and Sutherland, equal. *Class II.* —Leonard, Cockshutt. *Class III.*—Miner. (*Mining Engineering Course*).—*Class I.*—Forbes and Hamilton (A. M.) and McDougall, equal. *Class II.*—Blanchet, Martin.

Third Year.—(*Architectural Course*).—*Class I.*—Anglin. (*Practical Chemistry Course*).—*Class III.*—Harvie (R.) and Robertson, equal. (*Civil Engineering Course*).—*Class I.*—Brunner and Macnab, equal; Young. *Class II.*—Lea, McLachlan, Anderson (F. W.); Brown (W. G. B.) and Hadley, equal; McCuaig and Newton and Pedley, equal; Clawson; Brennan and McMeekin and Wickware, equal; Piers; Baylis. (*Electrical Engineering Course*).—*Class I.*—None. *Class II.*—Cram and Jackson and Thomas, equal; Durland; Batchelder and Walker, equal; Tupper, Forbes. *Class III.*—Boyd, Harvie (J.), Mudge. (*Mechanical Engineering Course*).—*Class I.*—Durkee. *Class II.*—Kirkpatrick and Loudon, equal; Black and Brady, equal. *Class III.*—Purdy. (*Mining Engineering Course*).—*Class I.*—Cole (G. E.), Winter, Cole (L. H.), Dickenson. *Class II.*—Howell and Sharp, equal.

SURVEYING.

Third Year.—*Class I.*—Piers, Clawson. *Class II.*—McCuaig, Macnab; McMeekin and Pedley, equal; Anderson and McLachlan and Winter, equal; Wickware. *Class III.*—Hadley and Howell, equal; Burnett; Cole (G. E.) and Cole (L. H.) and Howell, equal; Brunner and Newton, equal; Cowen, Sharp, Dickenson.

Second Year.—*Class I.*—Bell (W. P.) and Kingston and Lamb, equal; Sproule, Brooks. *Class II.*—Carney, Black; Macaulay, and

Martin, equal; Holloway, Beaton; Estey and Howe, equal; Hay; Brown (L. O.) and Conway and Gamble, equal; Wheaton. *Class III.*—Racey; Davis and Morrow, equal; Blackader, Houghton, Brown (W. G. B.), Miller, Wilson, Westland, Montgomery; Frith and Moyse, equal; Barclay (M. D.), Drummond, Hayes, Patterson; Daly and Mulock and Otty, equal.

SURVEYING FIELDWORK.

Third Year.—*Class I.*—McLachlan, Macnab, McCuaig, Sharp, Pedley. *Class II.*—Dickenson; Brunner and Piers, equal; Cole (G. E.) and Hadley, equal; Anderson and Gillis, equal; Howell and Wickware, equal; Cowen; Brown (W. G. B.) and Cole (L. H.) and Slater, equal; McMeekin, Burnett, Clawson. *Class III.*—Winter, Newton, Harding, Baylis.

Second Year.—*Class I.*—Gamble, Kingston, Lamb, Hay, Frith, Mulock; Bell (W. P.) and Moyse, equal. *Class II.*—Bell (V. H. G.); Haughton and Holloway and Morrow and Patterson, equal; Howe; Estey and Lynch and Otty and Racey and Sproule, equal; Wheaton; Daly and Phillips, equal; Martin; Beaton and Drummond, equal; Davis and Morrison, equal; Brooks and Macaulay and Strumbert, equal; Mather and Stephen, equal; Millen; Black and Brown (L. O.), equal; Miller, Montgomery; Carney and Shorey, equal; Westland and Blackader, equal. *Class III.*—Filer, Matthews, Wilson.

THEORY OF STRUCTURES

Fourth Year.—*Class I.*—Fyshe. *Class II.*—Kydd, Hogan, Jewett. *Class III*—Idsardi, Hamilton, Jost, Putnam.

Third Year.—*Class I.*—Lea, Clawson; Barrington and Piers, equal; Black. *Class II.*—Macnab, Walker, McCuaig; Brunner and Thomas, equal; McConkey; Hibbard and Kirkpatrick, equal; McLachlan, Loudon. *Class III.*—Brady and Howell, equal; Pippy, Jackson; Christie and Newton, equal; Sharp; McMeekin and Presner, equal; Brennan, Gurd, Anderson, Corrigan; Burnett and Taylor, equal; Purdy, Forbes, Batchelder and Cole (L. H.) and Pedley, equal; Boyd and Emmerson and Ewens and Ritchie and Ross and Turley and Ryan and Winter and Young, equal.

THERMODYNAMICS.

Fourth Year.—(*Electrical Engineering Course*).—*Class I.*—Boyle, Scouler; Redpath and Willard, equal; Glassco. *Class II.*—Johnstone, MacDermott, Archibald; Findlay and McLean, equal; Burpee, Bowness, Bedwell. *Class III.*—Cropper; Ross and Wright, equal; Wheaton, Harris; Campbell and Drinkwater, equal; Joseph and Price, equal; Piche, Cunha. (*Mechanical Engineering Course*).—*Class I.*—Sutherland. *Class II.*—Leonard, Gillies. *Class III.*—Cockshut, MacMillen.

Third Year.—*Class I.*—Loudon. *Class II.*—Turley, Jackson, Pippy, Presner. *Class III.*—Kirkpatrick, Ryan, Taylor; Brady and Pinch, equal; Black, Emmerson, Benedict.

TRANSPORTATION.

Third Year.—*Class I.*—None. *Class II.*—Winter. *Class III.*—Burnett, Howell; Cole (G. E.) and McMeekin, equal; Cole (L. H.); Cowen, and Ritchie, equal.

Faculty of Medicine.

SESSION 1904-1905

HONOUR AND CLASS LISTS.

The total number of students registered in the Faculty of Medicine for the Session 1904–1905 was made up as follows:—

First Year	106
Second Year	88
Third Year	96
Fourth Year	91
	381
Graduates in attendance	20
Total	401

Of whom there were from

Ontario	113
Quebec	100
New Brunswick	45
Prince Edward Island	21
United States	39
West Indies	11
Newfoundland	6
Nova Scotia and Cape Breton	37
British Columbia	19
Manitoba and North-West Territories	9
England	1
	401

FOURTH YEAR.

PRIZE LIST.

HOLMES GOLD MEDAL, for highest aggregate in all subjects forming the Medical Curriculum.

H. C. Mersereau, Doaktown, N.B.

FINAL PRIZE for highest aggregate in the Fourth Year subjects,

F. J. Tees, B.A., Montreal, Que.

McGILL MEDICAL SOCIETY SENIOR PRIZES.

First Prize: F. J. Tees, B.A., Montreal, Que.
Second Prize: J. A. C. Tull, Antigua, B.W.I.

HONOURS IN AGGREGATE OF ALL SUBJECTS.

1 Mersereau, H. C
2 Tees, F. J., B.A.
3 Burgess, H. C.
4 Moffatt, C. F., B.A.
5 Leslie, H. A.
6 Robertson, A. R.
7 MacDermot, J. H.
8 Henderson, E. H., B.A.

SURGERY—HONOURS.

1 Robertson, A. R.
2 MacDermot, J. H.
3 Richards, E. T. F.
4 Henderson, E. H., B.A.
Tull, J. A. C.
6 Burgess, H. C.
Tees, F. J., B.A.
8 Dykes, W.
Mersereau, H. C.
10 Brown, F. F.
Likely, D. S., B.A.
12 Loggie, W. S.
13 Munro, J. A.
14 Mason, J. H.
Scrimger, F. A. C., B.A.
Styles, W. A. L.

CLINICAL SURGERY—HONOURS.

1 Burgess, H. C.
2 Mersereau, H. C.
3 Tees, F. J., B.A.
4 Brown, F. F.
Mason, J. H.
6 Dykes, W.
Geddes, R. W., B.A.
Robertson, A. R.
Scrimger, F. A. C., B.A.
10 MacLean, J. D.

MEDICINE AND CLINICAL MEDICINE—HONOURS.

1 Tees, F. J., B.A.
2 Moffatt, C. F., B.A.
3 MacDermot, J. H.
Mersereau, H. C.
5 Robertson, A. R.
6 Scrimger, F. A. C., B.A.
7 Dykes, W.
8 Muckleston, H. S., M.A.
White, P. G.
10 Tull, J. A. C.
11 Henderson, E. H., B.A.

OPHTHALMOLOGY—HONOURS.

1 Nelles, T. R. B.
2 McMurtry, S. O., B.A.
McNaughton, W. B.
4 Tees, F. J., B.A.
5 Henderson, E. H., B.A.
Ryan, L. McD., B.A.
Sullivan, J. A.

PATHOLOGY—HONOURS.

1 Mersereau, H. C.
2 Leslie, H. A.,
3 Tees, F. J., B.A.
4 Moffatt, C. F., B.A.
5 Muckleston, H. S., M.A.
6 McNaughton, W. B.
7 Turnbull, E. G.
8 Mason, J. H.
9 Sullivan, J. A.
10 Cumming, A., B.A.
11 Viner, N., B.A.
Wood, G. O.
13 Robertson, B. W.
Scrimger, F. A. C., B.A.
15 Robertson, A. R.
16 Munro, J. A.
Nelles, T. R. B.
18 McDonald, J. A., B.A.
19 Sinclair, E. E.
20 Hume, G. M.
21 King, S. S.
MacDermot, J. H.
23 MacLean, J. D.
Valin, R. E.
25 Richards, E. T. F.
26 Dykes, W.
McMurtry, S. O., B.A.
28 Dowler, W. H.
Henderson, E. H., B.A.
Likely, D. S., B.A.
Pruyn, W. G., B.A.

GYNAECOLOGY—HONOURS.

1 Henderson, E. H., B.A.
2 Burgess, H. C.
3 Mersereau, H. C.
4 Leslie, H. A.
5 Petersky, S.
6 Finigan, J. F.
Loggie, W. S.
8 Hanington, J. W. B.
9 Alguire, A. R.
Wood, G. O.
11 Scott, W. J., B.A.
12 Dykes, W.
Moffatt, C. F., B.A.
Nelles, T. R. B.
Sinclair, E. E.
16 Grimmer, R. D.
Robertson, B. W.
18 Turnbull, E. G.
19 Styles, W. A. L.
Tees, F. J., B.A.

OBSTETRICS..HONOURS.

1 Burgess, H. C.
2 Moffatt, C. F., B.A.
3 Leslie, H. A.
4 Tees, F. J., B.A.
5 Mersereau, H. C.
6 Heagerty, J. J.
7 McNaughton, W. B.
8 Nelles, T. R. B.
9 Likely, D. S., B.A.
10 Brown, F. F.
11 Grimmer, R.D.
12 Dowler, W. H.
Sinclair, E. E.
14 Alguire, A. R.
15 Scrimger, F. A. C., B,A.

MENTAL DISEASES—HONOURS.

1 Brown, F. F.
2 Moffatt, C. F., B.A.
3 Leslie, H. A.
4 Tull, J. A. C.
5 Scrimger, F. A. C., B.A.
6 MacDermot, J. H.
Ryan, L. McD., B.A.
8 Burgess, H. C.
Likely, D. S., B.A.
10 Young, C. A.
11 Henderson, E. H., B.A.
Mersereau, H. C.
Richards, E. T. F.
14 Alguire, A. R.
McMurtry, W. C.
16 Hanington, J. W. B.
Hume, G. M.
Sinclair, E. E.

PASS LIST.

FINAL SUBJECTS.

The following gentlemen, 74 in number, have fulfilled all the requirements to entitle them to the degree of M.D., C.M., from the University. In addition to the primary subjects they have passed a satisfactory examination, both written and oral, in the following subjects:—Principles and Practice of Surgery, Theory and Practice of Medicine, Obstetrices and Diseases of Women and Children, Pharmacology and Therapeutics, Medical Jurisprudence, Practical and General Pathology, Bacteriology and Hygiene, Mental Diseases, and also clinical examinations in Medicine, Surgery, Obstetrices, Gynaecology, and Ophthalmology, conducted at the bedside in the hospital:—

Alguire, A. R. ..... Cornwall, Ont.
Briggs, J. A. ..... New Westminster, B.C.
Brown, F. F. ..... Cornwall, Ont.
Burgess, H. C ..... Sheffield Mills, N.S.
Chisholm, H. A., B.A. ..... Linwood, N.S.
Connor, E. L. ..... Berlin, Ont.
Costello, W. J. W., B.A. ..... Montreal, Que.
Covernton, C. F. ..... Montreal, Que.
Cumming, A., B.A ..... Scotsburn, N.S.
Dougan, B.H. ..... Hibernia, N.B.
Dowler, W. H. ..... Billings Bridge, Ont.
Dykes, Watson. ..... Nanaimo, B.C.
Finigan, J. F ..... Oshawa, Ont.
Geddes, R. W., B.A. ..... Deseronto, Ont.
Gillis, J. H ..... Matapedia, Que.
Grimmer, R. D. ..... St. Andrews, N.B.
Hanington, J. W. B. ..... Victoria, B.C.
Heagerty, J. J. ..... Montreal, Que.
Henderson, E. H., B.A ..... Huntingdon, Que.
Henry, E. G., B.A ..... Lennoxville, Que.
Hume, G. M. ..... Leeds Village, Que.
King, S. S. ..... Albert, N.B.
Leslie, H. A. ..... Souris West, P.E.I.
Likely, D. S., B.A. ..... St. John, N.B.
Loggie, W. S. ..... Chatham, N.B.
MacDermot, J. H. ..... Gordon Town, Jamaica.
MacKay, M. E. ..... Cape Breton, N.S.
MacLean, J. D. ..... Culloden, P. E. I.

McDonald, J. A., B.A. ..... Valleyfield, Que.
McDonald, J. C. ..... Peak's Station, P.E.I.
McIntosh, G. J ..... Dalkeith, Ont.
McLeod, W. A. ..... Finch, Ont.
McMicking, A. E. T. ..... Victoria, B.C.
McMurtry, S. O., B.A ..... Montreal, Que.
McMurtry, W. C ..... Port Hope, Ont.
McNaughton, W. B ..... St. Raphael West, Ont.
Mason, J. H ..... Lachute Mills, Que.
Mersereau, H. C. ..... Doaktown, N.B.
Miller A. P. ..... Chatham, Ont.
Moffatt, C. F., B.A. ..... Montreal, Que.
Mohr, F. W. C. ..... Arnprior, Ont.
Muckleston, H. S., M.A. ..... Perth, Ont.
Mulligan, J. W. ..... Omemee, Ont.
Munro, J. A ..... Pugwash, N.S.
Nelles, T. R. B. ..... Simcoe, Ont.
Prendergast, A. R., B.A ..... Montreal, Que.
Pruyn, W. G., B.A. ..... Napanee, Ont.
Richards, E. T. F. ..... St. Vincent, B. W. I
Robertson, A. R ..... Victoria, B.C.
Robertson, B. W. ..... Wickham, N.B.
Rommel, E. ..... Alma, N.B.
Ryan, L. McD., B.A. ..... Newburg, Ont.
Sawyer, A. R. ..... Roslindale, Boston, Mass.
Scott, W. J., B.A. ..... Montreal, Que.
Scrimger, F. A. C., B.A. ..... Montreal, Que.
Seifert, F. W., B.A. ..... Quebec, Que.
Sinclair, E. E. ..... Summerside, P.E.I.
Smith, W. A ..... Toronto, Ont.
Styles, W. A. L ..... Montreal, Que
Sullivan, J. A. ..... Arnprior, Ont.
Tees, F. J., B.A. ..... Montreal, Que.
Tull, J. A. C. ..... Antigua, B. W. I.
Turnbull, E. G. ..... Branchton, Ont.
Valin, R. E. ..... Ottawa, Ont.
Viner, N., B.A. ..... Montreal, Que.
Waterman, Chester ..... Ogdensburg, N.Y.
White, P. G. ..... Woodstock, Ont.
Wigle, C. A. ..... Wiarton, Ont.
Wilkinson, W. M. ..... Woodstock, Ont.
Winder, J. B., B.A. ..... Compton, Que.
Winfrey, W. C., B.L. ..... Sault Ste. Marie, Mich.
Wood, G. O ..... Morrisburg, Ont.
Wood, W. H ..... Montreal, Que.
Young, C. A. ..... Ottawa, Ont.

THIRD YEAR.

PRIZE LIST.

THIRD YEAR PRIZEMAN :
R. S. MacArthur, Summerside, P. E. I.

SUTHERLAND MEDALLIST :
D. R. Fraser, Montague Bridge, P. E. I.

McGILL MEDICAL SOCIETY JUNIOR PRIZES :
First Prize: W. L. Holman, B.A., Summerside, P.E.I.
Second Year: R. J. Monahan, Montreal, Que.

HONOURS IN AGGREGATE OF ALL SUBJECTS.

1 MacArthur, R. S.
2 Williams, C. S
3 Hunter, A. W.
4 Hillman, O. S.
5 Viner, N., B.A.
6 Lomer, T. A., B.A.
7 Gillies, G. E.
Holden, C. P
Ryan, L. McD., B.A.
10 Weldon, R. C., Jr.
11 McEwan, E. H.
12 Mabee, O. R., Ph. B.
13 Donnelly, J. H.
14 MacDonald, P. A.
15 Gurd, F. B., B.A.

CLINICAL SURGERY—HONOURS.

1 Field, B. R.
2 Chandler, A. B., B.A.
3 Christie, H. H.
Flegg, R. F.
Forbes, A. E. G.
Gillies, G. E.
Gurd, F. B., B.A.
Hackett, J. F., B.A.
Layton, J. S., B.A.
Monahan, R. J.
Sheahan, J. J.
Wilson, A. A.
13 Malcolm, D. C.
14 Allen, H. C. B.
Burke, G. H.
Donnelly, J. H.
Gourley, H. B., Ph. B.
Green, T. B., B.A.
Huycke, A. H.
Kelly, A. E.
Lyon, G. R. D.
MacArthur, R. S.
MacDonald, J. P.
McPhee, J. T.
Munroe, A. R.
Noble, E. C.
Parsons, W. H.
Payne, G. A. L.
Ralph, A. J., Ph. B.
Weldon, R. C., Jr.

PATHOLOGY—HONOURS.

1 Hillman, O. S
2 Gurd, F. B., B.A.,
3 MacArthur, R. S.
4 MacDonald, P. A.
5 Lomer, T. A., B.A.
6 Hunter A. W.
7 Fraser, D. R.
Weldon, R. C., Jr.
Williams, C. S.
11 McDiarmid, J. S., B. Sc.
12 Holden, C. P.
Sheahan, J. J.
13 Gillies, G. E.
14 Allen, H. C. B.
McEwen, E. H.
16 Field, B. R.

THERAPEUTICS—HONOURS.

1 MacArthur, R. S.
2 Holden, C. P.
Hunter, A. W.
4 Williams, C. S.
5 Hillman, O. S.
Sheahan, J. J.
7 Mabee, O. R., Ph. B.
8 Kelly, A. E.
Nathan, D.
Ralph, A. J., Ph. B.
11 MacDonald, P. A.
12 McEwen, E. H.
Monahan, R. J.
14 Hunter, T. V.
Layton, J. S., B.A.
Weldon, R. C., Jr.
17 Gillies, G. E.
MacArthur, C. O.
Sims, H. L.

OBSTETRICS—HONOURS.

1 Lomer, T. A., B.A.,
MacArthur, R. S.
3 Fraser, D. R.
4 Field, B. R.
Gurd, F. B., B.A.
6 Chandler, A. B., B.A.
Hillman, O. S.
8 Budyk, J. S.
Chirstie, H H.
Gourley, H. B., Ph. B.
Henderson, S.
Munroe, F. D.
Patterson, W. J., B.A.
14 Allen, H. C. B.
Burke, G. H.
Holden, C. P.
Michaud J. N.
18 Donnelly, J. H.
Hollbrook, R. E.
Howlett, G. P.
Lyon, G. R. D.
Malcolm, D. C.
23 Crowe, H. S., B.A.
Green, T. B., B.A.
25 Fraser, T. B.
Gross, C. J.
Kelly, A. E.
MacArthur, C. O.
Risher, F. O.
Shaw, R. McL., B.A.
31 Flegg, R. F.
Forbes, A. E. G.
Groves, Osler, M.
Layton, J. S., B.A.
Sims, H. L.
Williams, C. S.

HYGIENE—HONOURS.

1 Williams, C. S.
2 Donnelly, J. H.
3 Gillies, G. E.
Hardy, A. N.
5 Lomer, T. A., B.A.
Mabee, O. R., Ph. B.
7 Fraser, D. R.
8 Shaw, R. McL., B.A.
9 Michaud, J. N.

BACTERIOLOGY—HONOURS.

1 MacArthur, R. S.
2 Williams, C. S.
3 Clarke, F. C.
Hunter, A. W.
Lomer, T. A., B.A.
McEwen, E. H.
7 Layton, J. S., B.A.
8 Donnelly, J. H.
Field, B. R.
MacDonald, P. A.
11 Mabee, O. R., Ph. B.
Munroe, F. D.
Payne, G. A. L.
Weldon, R. C., Jr.
15 MacArthur, C. O.
16 Fraser, D. R.
Hill, R. C., M.D.
Hillman, O. S.
Holden, C. P.
Turnbull, J. W.

MEDICAL JURISPRUDENCE—HONOURS.

1 Hunter, A. W.
MacArthur, R. S.
3 Donnelly, J. H.
Turnbull, J. W.
5 Christie, H. H.
6 Gillies, G. E.
Hillman, O. S.
MacDonald, P. A.
Williams, C. S.

CLINICAL MEDICINE—HONOURS.

1 Hammond, J. F.
Holden, C. P.
Risher, F. O., B.A.
4 Lomer, T. A., B.A.
5 Chandler, A. B., B.A.
Robbins, E. E.
Weldon, R. C., Jr.
8 Hillman, O. S.
9 Lyon, G. R. D.
Sheahan, J. J.
11 Keddy, O. B., B.A.
Nathan, D.
Williams, C. S.
14 Gillies, G. E.
Gourley, H. B., Ph. B.
16 Fraser, D. R.
Groves, Osler, M.
Hunter, J. D.
McEwen, E. H.
Malcolm, D. C.
Munroe, F. D.
Ralph, A. J., Ph. B.
Shaw, R. McL. B.A.

THIRD YEAR PASS LIST.

ALL SUBJECTS.

The following students, 76, in number have passed in all the subjects of the Third Year, viz:—Pathology, Pharmacology and Therapeutics, Hygiene, Bacteriology, Medical Jurisprudence, Medicine, Surgery and Obstetrics.

Allen, H. C. B.
Auld, J. W.
Bonelli, V., Jr., B.A.
Brown, G. T.
Callbeck, A. DesB.
Chandler, A. B., B.A.
Christie, H. H.
Crowe, H. S., B.A.
Donnelly, J. H.
Dougan, B. H.
Dowler, W. H.
Ewart, D.
Field, B. R.,
Flegg, R. F.
Fraser, D. R.
Fraser, T. B.
Fripp, G. D.
Gillies, G. E.
Gourley, H. B., Ph. B.
Green, T. B., B.A.
Grimmer, R. D.
Groves, Osler M.
Gurd, F. B., B.A.
Hackett, J. F., B.A.
Hammond, J. F.
Hardy, A. N.
Henry, E. G., B.A.
Hewitt, T. J.
Hillman, O. S.
Holden, C. P.
Hunter, A. W.
Hunter, J. D.
Hunter, T. V.
Johnson, B. F.
Kerfoot, H. W.
King, S. S.
Kinloch, C. A.
Lomer, T. A., B.A.
Lyon, G. R. D.
MacArthur, R. S.
Macdonald, J. P.
MacDonald, P. A.
MacKay, M. E.
McDiarmid, J. S., B. Sc.
McDonald, J. C.
McEwen, E. H.
McIntosh, G. J.
McMicking, A. E. T.
McMillan, J. A.
McNaughton, G. K., B.A.
Mabee, O. R., Ph. B.
Malcolm, D. C.
Marlgolese, O.
Michaud, J. N.
Monahan, R. J.
Munroe, F. D.
Nathan, D.
Parsons, W. H.
Patterson, W. J., B.A.
Peate, G. B.
Prendergast, A. R., B.A.
Ralph, A. J., Ph. B.
Rilance, C. D.
Risher, F. O., B.A.
Robbins, E. E.
Rothwell, O. E., B.A.
Ryan, L. McD., B.A.
Shaw, R. McL., B.A.
Sheahan, J. J.
Sims, H. L.
Turnbull, J. W.
Viner, N., B.A.
Wa'sh, C. E.
Weldon, R. C., Jr.
Williams, C. S.
Winfrey, W. C., B.L.

In addition to those whose names appear on the above list as having passed in all the subjects of the Third Year, the following have passed in:—

PHARMACOLOGY AND THERAPEUTICS.

Bayley, A. H.
Budyk, J. S.
Burke, G. H.
Cameron, A. B.
Fairie, J. A.
Forbes, A. E. G.
Hill, R. C., M.D.
Hollbrook, R. E.
Howlett, G. P.
Huycke, A. H.
Keddy, O. B., B.A.
Kelly, A. E.
Layton, J. S., B.A.
MacArthur, C. O.
MacCallum, D. G.
MacLeod, J. M.
McDougald, W. L.
McPhee, T. J.
Mair, W. L.
Munroe, A. R.
Payne, G. A. L.
Ritchie, C. A., B.A.
Sweeney, J. L.
Tilley, A. R.
Walker, J. J., B.A.
White, J. H.
Wilson, A. A.
Young, A. MacG., B.A.

PATHOLOGY.

Bayley, A. H.
Budyk, J. S.
Burke, G. H.
Forbes, A. E. G.
Henderson, S.
Hollbrook, R. E.
Howlett, G. P.
Huycke, A. H.
Joughins, J. L.
Keddy, O. B., B.A.
Kelly, A. E.
Layton, J. S., B.A.
Lindsay, E. A., B.A.
MacArthur, C. O.
MacLeod, J. M.
McPhee, T. J.
Mair, W. L.
Morgenstern, A.
Muir, W. L.
Munroe, A. E.
Noble, E. C.
Payne, G. A. L
Raftery, C. R.
Scott, W. H.
Tilley, A. R.
Walker, J. J., B.A.
White, J. H.
Wilson, A. A.
Young, A. Mac G., B.A.

HYGIENE.

Bayley, A. H.
Budyk, J. S.
Burke, G. H.
Dearborn, H. F.
Fairie, J. A.
Forbes, A. E. G.
Henderson, S.
Hill, R. C., M.D.
Hollbrook, R. E,.
Howlett, G. P.
Huycke, A. H.
Keddy, O. B., B.A.
Kelly, A. E.
Layton, J. S., B.A.
Lindsay, E. A., B.A.
MacArthur, C. O.
MacCallum, D. G.
MacLeod, J. M.
McDougald, W. L..
McPhee, T. J.
Munroe, A. R.
Noble, E. C.
Ritchie, C. A., B.A.
Scott, W. H.
Tilley, A. R.
White, J. H.
Wilson, A. A.
Young, A. MacG. B.A.

MEDICAL JURISPRUDENCE.

Bayley, A. H.
Budyk, J. S.
Dearborn, H. F.
Fairie, J. A.
Hill, R. C., M.D.
Joughins, J. L..
Kelly, A. E.
Mair, W . L.
Payne, G. A. L.
Raftery, C. R.
Ritchie, C. A., B.A.

MEDICAL JURISPRUDENCE.—*Continued.*

Forbes, A. E. G.
Hollbrook, R. E.
Howlett, G. P.
Layton, J. S., B.A.
Lindsay, A. E., B.A.
MacArthur, C. O.
McDougald, W. L.
McPhee,T J.
Scott, W. H.
Tilley, A. R.
Walker, J. J., B.A.
Young, A. MacG., B.A

CLINICAL MEDICINE.

Dearborn, H. F.
Henderson, S.
Joughins, J. L.
Keddy, O. B., B.A.
Lindsay, E. A., B.A.
MacCallum, D. G.
Morgenstern, A.
Muir, W. L.,
Noble, E. C.
Payne, G. A. L.
Raftery, C. R.
Ritchie, C. A , B.A.
Scott, W. H.
Walker, J. J., B.A.
White, J. H.
Wilson, A. A.

CLINICAL SURGERY.

Bayley, A. H.
Budyk, J. S.
Burke, G. H.
Dearborn, H. F.
Fairie, J. A.
Forbes, A. E. G.
Gross, C. J.
Hand, W. T.
Henderson, S.
Hollbrook, R. E.
Howlett, G. P.
Huycke, A. H.
Joughins, J. L.
Keddy, O. B., B.A.
Kelly, A. E.
Layton, J. S., B.A.
Lindsay, E. A., B.A.
MacArthur, C. O.
MacCallum, D. G.
MacLeod, J.M.
McDougald, W. L.
McPhee, T. J.
Mair, W. L.
Morgenstern, A.
Muir, W. L.
Munroe, A. R.
Noble, E. C.
Payne, G. A. L.
Raftery, C. R.
Ritchie, C. A., B.A.
Scott, W. H.
Tilley, A. R.
Walker, J. J., B.A.
White, J. H.
Wilson, A. A.
Young, A. MacG., B.A.

OBSTETRICS.

Bayley, A. H.
Budyk, J. S.
Burke, G. H.
Dearborn, H. F.
Fairie, J. A.
Forbes, A. E. G.
Gross, C. J.
Henderson, S.
Hollbrook, R. E.
Howlett, G. P.
Huycke, A. H.
Joughins, J. L.
Keddy, O. B., B.A.
Kelly, A. E.
Layton, J. S., B.A.
Lindsay, E. A., B.A.
MacArthur, C. O.
MacCallum, D. G.
MacLeod, J. M.
McDonald, J. N.
McDougald, W. L.
McPhee, T. J.
Mair, W. L.
Morgenstern, A.
Muir, W. L.
Munroe, A. R.
Noble, E. C.
Payne, G. A. L.
Raftery, C. R.
Ritchie, C. A., B.A.
Scott, W. H.
Tilley, A. R.
Walker, J. J., B.A.
White, J. H.
Wilson, A. A.
Young, A. MacG., B.A.

BACTERIOLOGY.

Bayley, A. H.
Budyk, J. S.
Clarke, F. C.
Dearborn, H. F.
Fairie, J. A.
Forbes, A. E. G.
Gross, C. J.
Henderson, S.
Hill, R. C., M.D.
Hollbrook, R. E.
Howlett, G. P.
Huycke, A. H.
Joughins, J. L.
Keddy, O. B., B.A.
Kelly, A. E.
Layton, J. S., B.A.
Lindsay, E. A., B.A.
MacArthur, C. O.
MacCallum, D. G.
MacLeod, J. M.
McDougald, W. L.
McPhee, T. J.
Mair, W. L.
Munroe, A. R.
Muir, W. L.
Payne, G. A. L.
Raftery, C. R.
Ritchie, C. A., B.A.
Scott, W. H.
Thomas, F. H., B.A.
Tilley, A. R.
Walker, J. J., B A
White, J. H.
Wilson, A. A.
Wolff, E. K., B.A.
Young, A. MacG , B.A.

SECOND YEAR.

PRIZES AND HONOURS.

SECOND YEAR PRIZEMAN:
R. M. Benvie, Salt Springs, (Pictou), N.S.

SENIOR ANATOMY PRIZE:
A. L. McLennan, B.A., Lancaster, Ont.

HONOURS IN AGGREGATE OF ALL SUBJECTS.

1 Benvie, R. M.
2 McLennan, A. L., B.A.
3 Trufant, L. H., A.B.
Whitelaw, W. A.
5 Clarke, F. C.
6 Logie, F. G.
7 Peters, H. LeB., B.A.
8 Farris, H. A
9 Sawyer, C. D., A.B.
10 MacNab, N. A.
11 Lannin, G. E. J.
12 Rublee, O. E., B.A.
13 Brydone-Jack, F. W.

PHYSIOLOGY—HONOURS.

1 Benvie, R. M.
2 McLennan, A. L., B.A.
3 Farris, H. A.
4 Healy, J. J.
5 Whitelaw, W. A.
6 Sawyer, C. D., A.B.
7 Clarke, F. C.
Lannin, G. E. J.
9 Rublee, O. E., B.A.
10 Brydone-Jack, F. W.
11 Davis, S.
12 Landry, A. R.
MacNab, N. A.
14 Enright, W. E., M.A
Logie, F. G.
Peters, H. LeB., B.A.

APPLIED MEDICAL CHEMISTRY—HONOURS.

1 Brydone-Jack, F. W.
2 Peters, H. LeB., B.A.
3 Logie, F. G.
4 Healy, J. J.
MacNab, N. A.
Whitlaw, W. A.
7 Benvie, R. M
Rublee, O. E., B.A.
9 Farris, H. A.
McLennan, A. L., B.A.
11 Trufant, L. H., A.B.
12 Landry, A. R.
13 Porter, J. F. S.
14 Blanchard, H. B.
Lannin, G. E. J.
16 Sawyer, C. D., A.B.
17 Layton, J. S.
18 Clarke, F. C.
Coborn, J.

HISTOLOGY—HONOURS.

1 Trufant, L. H., A.B.
2 Benvie, R. M.
Davis, S.
Healy, J. J.
Logie, F. G.
Whitelaw, W. A.
7 Baird, W. S.
Bechtel, A. D.
Lannin, G. E. J.
MacNab, N. A.
McLennan, A. L., B.A.
Peters, H. LeB., B.A.
Thomson, J. W.
14 Farris, H. A.
15 Brydone,-Jack, F. W.
Covey, H. W.
Edwards, W. T.
Peltier, H. G.
Quinn, F. P.
Rublee, O. E., B.A.

ORGANIC CHEMISTRY—HONOURS.

1 Brydone-Jack, F. W.
2 Farris, H. A.
3 McLennan, A. L., B.A.
4 Blanchard, H. B.
Healy, J. J.
Whitelaw, W. A.
7 Lannin, G. E. J.
8 Porter, J. F. S.
9 Benvie, R. M.
Peltier, H. G.
11 Dexter, R. B., B.A.
MacNab, N. A.
13 Rublee, O. E., B.A.
Wilson, M. J.
15 Chipman, R. L., M.A.
Robinson, R. C.
17 Bechtel, A. D.
18 Covey, H. W.
Logie, F. G.

ANATOMY—HONOURS.

1 Trufant, L. H., A.B.
2 Clarke, F. C.
3 Logie, F. G.
McLennan, A. L., B.A.
5 Sawyer, C. D., A.B.
6 Whitelaw, W. A.
7 Benvie, R. M.
8 Quinn, F. P.
9 Peters, H. LeB., B.A
10 Bechtel, A. D.
Porter, J. F. S.
12 MacNab, N. A.
13 Rublee, O. E., B.A.
14 Blanchard, H. B.
15 Farris, H. A.

PHARMACOLOGY—HONOURS.

1 MacNab, N. A.
2 Logie, F. G.
Peters, H. LeB., B.A.
Trufant, L. H., A.B.
5 Clarke, F. C.
Eggert, C A.
7 Farris, H. A.
Sinclair, G. W.
9 Whitelaw, W. A.
10 Benvie, R. M.
Brydone-Jack, F. W.
Layton, J. S., B.A.
Rublee, O. E , B.A.

PHARMACY—HONOURS.

1 Eggert, C. A.
Logie, F. G.
3 Lannan, G. E. J.
4 Fraser, S. B.
Whitelaw, W. A.
6 Baird, W. S.
7 Enright, W. E., M.A.
Quinn, F. P.
9 Healy, J. J.
Penney, L. T. W.
Peters, H. LeB., B.A.
Trufant, L. H., A.B.

13 Bray, D. G., B.A.
Clarke, F. C.
Gray, W. E.
Robinson, R. C.
Sinclair, G. W.
Waddell, J. R.
19 Arthur, J. R.
Benvie, R. M.
Bernstein, D. H.
Covey, H. W.
Farris, H. A.
Hill, A. L., A.B.
Locke, E. E.
MacNab, N. A.
Porter, J. F. S.
Tannenbaum, D.
29 Peltier, H. G.
Sawyer, C. D., A.B.
Stephens, G. F.

SECOND YEAR PASS LIST.

ALL SUBJECTS.

The following students, 79 in number, have passed in all the subjects of the Second Year, comprising the following:—Anatomy, Practical Anatomy, Organic Chemistry, Applied Medical Chemistry, Physiology, Practical Physiology, Histology, Pharmacy and Pharmacology.

Arthur, J. R.
Bailey, A. H.
Baird, W. S.
Bechtel, A. D.
Benvie, R. M.
Bernstein, D. H.
Blanchard, H. B.
Bray, D. G., B.A.
Brydone-Jack, F. W.
Burke, G. H.
Clarke, F. C.
Coborn, Josiah
Covey, H. W.
Denovan, B.
Dixon, J. A.
Edwards, W. F.
Eggert, C. A.
Enright, W. E., M.A.
Farris, H. A.
Fraser, S. B.
Fraser, T. B.
Fripp, G. D.
Gabie, W. G.
Graham, D. W.
Gray, W. E.
Grier, R. T.
Groves, Osler M.
Hackett, J. F., B.A.
Hammond, J. F.
Healy, J. J.
Hill, R. C., M.D.
Hils, O. H., B.L.
Holman, W. L., B.A.
Joughins, J. L.
Keay, Thos.,
Lake, W. E.
Landry, A. R
Lannin, G. E. J.
Layton, J. S., B.A.
Lindsay, E. A., B.A.
Locke, E. E.
Logie, F. G.
MacArthur, C. O.
MacLachlan, W. W. G.
MacNab, N. A.
McCann, J. H.
McCowen, G. R.
McDougald, W. L.
McEwen, E. H.
McLennan, A. L., B.A.
McPhee, T. J.
Michaud, J. N
Monahan, R. J.
Muir, W. L., B.A.
Payne, G. A. L.
Peate, C. B.
Peltier, H. G.
Peters, H. LeB., B.A.
Porter, J. F. S.
Quinn, F. P.
Rabinovitch, M.
Rilance, C. D.
Risher, F. O.
Robinson, R. C.
Ross, C. E.
Rublee, O. E., B.A.
Sawyer, C. D., A.B.
Seifert, F. W.
Shirreffs, H. S.
Sinclair, G. W.
Stephens, G. F.
Stevenson, A. B.
Smith, W. A.
Taylor, G. O.
Trufant, L. H., A.B.
Vesey, E. M.
Whitelaw, W. A.
Wigle, C. A.
Woodrow, J. B.

In addition to those whose names appear on the above list, as having passed in all the subjects of the Second Year, the following have passed in:

PHARMACY.

Adcock, J. P.
Elliott, M. H.
Fraser, L. H.
Girvan, R. G.
Harry, A. C.
Hawkins, Z.
Hill, A. L., A.B.
Huycke, A. H.
Johnson, A. L., B.A.
Kean, S. G.
McCormick, A. S.
McKay, W. H.
McNaughton, D. A.
Morgenstern, A.
Muir, D. H., Jr.
Oulton, M. A., B.A.
Paterson, J.
Penney, L. T. W.
Rodrigues, E. T.
Shankel, F. R., B.A.
Stein, S. F.
Sutherland, R. H., B.A.
Tannenbaum, D.
Thomas, F. H., B.A.
Thomson, G. D.
Thomson, J. W.
Waddell, J. R.
Waissman, M.
Wallace, C. T.
Wilson, M. J.
Wright, R. P.

PHARMACOLOGY.

Girvan, R. G.
Harry, A. C.
Hill, A. L., A.B.
Kean, S. G.
MacCallum, D. G.
McKay, W. H.
Oulton, M. A , B.A.
Penney, L. T. W.
Raftery, C. R.
Ritchie, C. A., B.A.
Shankel, F. R., B.A.
Sutherland, R. H., B.A.
Thomson, J. W.
Waddell, J. R.
Waissman, M.
Wallace, C. T.
Wilson, M. J.
Wright, R. P.

HISTOLOGY.

Adcock, J. P.
Davis, S.
Girvan, R. G.
Gray, E. H
Hawkins, Z.
Hill, A. L., A. B.
Kean, S. G.
McKay, W. H.
Morgenstern, A.
Oulton, M. A., B.A.
Penney, L. T. W.
Shankel, F. R., B.A.
Sparks, J. J.
Stein, S. F.
Sutherland, R. H., B.A.
Tannenbaum, D.
Thomas, F. H., B.A.
Thomson, J. W.
Waddell, J. R.
Wallace, C. T.
Wallace, I.
Wilson, M. J.
Wright, R. P..

ANATOMY.

Budyk, J. S.
Davis, S.
Hawkins, Z.
WRITTEN ONLY:
Penney, L. T. W.
ORAL ONLY:
Lyon, G. R. D.
Shankel, F. R., B.A.
Huycke, A. H.
Johnson, A. L., B.A.
Lynch, J. G. B.
Morgan, J. D., B.A.
Paterson, J.
Thomas, F. H. B.A.
Thomson, J. W.
Sutherland R. H., B.A.
Waddell, J. R.
Wallace, C. T.
Wolff, E. K., B.A.

PHYSIOLOGY.

Davis, S.
Girvan, R. G.
Gray, E. H.
Hawkins, Z.
Hill, A. L., A.B.
Johnson, A. L , B.A.
Kean, S.G.
MacCallum, D. G.
McKay, W. H.
Morgenstern, A.
Oulton, M. A., B.A.
Penney, L. T. W.
Shankel, F. R., B.A.
Tannenbaum, D.
Thomson, J. W.
Wright, R. P.

APPLIED MEDICAL CHEMISTRY.

Adcock, J. P.
Girvan, R. G.
Hill, A. L., A.B.
Johnson, A. L., B.A.
Kean, S. G.
Lynch, J. G. B.
McKay, W. H.
Morgenstern, A.
Muir, D. H., Jr.
Oulton, M. A., B.A.
Penney, L. T. W.
Shankel, F. R., B.A.
Sparks, J. J.
Stein, S. F.
Sutherland, R.H., B.A.
Tannenbaum, D.
Thomson, J. W.
Waddell, J. R.
Wilson, M. J.
Wright, R. P.

ORGANIC CHEMISTRY.

Chipman, R. L., M.A.
Dexter, R. B., B.A.
Freedman, A.
Girvan, R. G.
Gray, E. H.
Hill, A. L., A.B.
Johnson, A. L., B.A.
Kean, S. G.
Kirby, W. P. P., B.A.
Lynch, J. G. B.
Noble, E. C.
Penney, L. T. W.
Powell, R. E., B.A.
Read, E. S., B.A.
Shankel, F. R., B.A.
Stein, S. F.
Sutherland, R.H . B.A.
Tracy, W. L., B.A.
Waddell, J. R.
Wallace, I.
Waugh, O. S.
Wilson, M. J.
Wright, R. P.

FIRST YEAR.

PRIZES AND HONOURS.

FIRST YEAR PRIZEMAN:
R. H. McDonald, North Bedique, P.E.I.

JUNIOR ANATOMY PRIZE:
R. B. Dexter, B.A., Wolfville, N.S.

HONOURS IN AGGREGATE OF ALL SUBJECTS.

1 McDonald. R. H.
2 Chipman, R. L., M.A.
Read, G. C., B.A.
4 McCrea, G. P.
5 Ortenberg, Sam'l

BACTERIOLOGY—HONOURS.

1 Tracy, W. L., B.A.
2 Campbell, D. G.
3 McMillan, W. J. P.
4 Murphy, G. B., B.A.
5 Penney, L. T. W.
6 MacDonell, D.F., B.A.
Ortenberg, S.
Rowell, J. S.
Soley, L. A.
10 Read, G. C., B.A.
Kirby, W. P. P., B.A.
McCrea, G. P.
13 Chipman, R. L., M.A.
14 Kelly, J. W.
15 Bleasdell, W. A.
Davis, D. W.
Shewan, D. R.

PRACTICAL CHEMISTRY—HONOURS.

1 Chipman, R. L., M.A.
Freedman, A.
Holbrook, C. E.
Hunter, W. B.
Ortenberg, S.
Wilson, K. M.
7 Allen, K. W.
Soley, L. A.
9 Donahoe, R. A.
10 Kaufmann, J.
11 Bleasdell, W. A.
McDonald, R. H.
13 McBride, W. P.
14 Arbuckle, J. W.
Clarke, T. L. E.
Read, G. C., B.A.
Shewan, D. R.
18 Shanks, Geo., B.A.
19 Craig, D. A.
DeWitt, C. E. A., B.A.
Tanton, E. T.
22 Black, J. R.
Carr, J. B., B.A.
Nagle, F. W.
25 Campbell, J. DeL.
McCordick, A. H.
27 Crawford, J. W.
28 Rowell, J. S.
Thomas, M. W.

PHYSICS—HONOURS.

1 McGrath, J. P., B.L.
2 Chipman, R. L., M.A.
Nagle, F. W.
4 Black, J. R.
Craig, D. A.
Holbrook, C. E.
McCrea, G. P.
8 Murphy, G. B., B.A.
Read, G. C., B.A.
10 McDonald, R. H.
11 Drury, W. H.
Lees, F. W.
13 MacLean, A. S.
14 Allen, O. J. McC.
Carr, J. B., B.A.
Kelly, J. W.
Shanks, G., B.A.

BIOLOGY—HONOURS.

1 McCrea, G. P.
2 Shanks, Geo., B.A.
3 Freedman, A.
4 Read, G. C., B.A.
5 Martin, A. A.
6 Allen, O. J. McC.
Murphy, G. B., B.A.
8 Carr, J. B., B.A.
9 Holbrook, C. E.
Thomas, M. W.

PHYSIOLOGY—HONOURS.

1 Dexter, R. B., B.A.
2 Arbuckle, J. W.
3 Kirby, W. P., B.A.
4 McCrea, G. P.
Soley, L. A.
6 Chipman, R. L., M.A.
7 Bennett, S. J.
MacDonell, D. F., B.A.
McDonald, R. H.
Ortenberg, S.

ANATOMY—HONOURS.

1 McDonald, R. H.
Dexter, R. B., B.A.
3 Rowell, J. S.
McCrea, G. P.
5 Simpson, J. S.
6 Foster, L. S.
Jenkins, W. M.
8 Craig, D. A.
9 Rocheleau, W. C., B.A.
Powell, R. E., B.A.
11 Lees, F. W.
MacDonell, D. F., B.A.
13 Black, J. R.
Ortenberg, S.
15 Donahoe, R. A.
Freedman, A.
McMillan, W. J. P.
Clarke, J. C., B.A.
Shewan, D. R.
Tanton, E. T.
21 Kaufman, J.
Thomas, M. W.
23 Campbell, J. DeL.
London, J. F.
Martin, A. A.
Hill A. L., A.B.
Hunter, W. B.

INORGANIC CHEMISTRY—HONOURS.

1 McDonald, R. H.
2 Dunnet, H. W.
3 Read, G. C., B.A.
4 McGrath, J. P., B.L.
5 Jenkins, W. M.
McMillan, W. J. P.
7 Shanks, Geo., B.A.
8 Kelly, J. W.
9 Dewar, R. D.
10 Chipman, R. L., M.A.
McCrea, G. P.
Wilson. K. M.
13 London, J. F.
14 Carr, J. B., B.A.
Goodwin, B. E.

HISTOLOGY—HONOURS

1 Rocheleau, W. C., B.A.
2 Robinson, Geo.
3 McDonald, R. H.
Simpson, J. S.
5 Drury, W. H.
6 Craig, D. A.
Kirby, W. P. P., B.A.
Martin, A. A.
9 Daigneau, P. L.
Dexter, R. B., B.A.
Jenkins, W. M.
McMillan, W. J. P.
Powell, R. E., B.A.
Shanks, Geo., B.A.
15 Campbell, D. G., B.A.
McCallum, J. S.
Nagle, F. W.
Ortenberg, S.
Soley, L. A.
Waugh, O. S.
21 Chipman, R. L., M.A.
Donahoe, R. A.
McCrea, G. P.
Tracy, W. L., B.A.

FIRST YEAR PASS LIST.

ALL SUBJECTS.

The following students, 77 in number, have passed the examinations in all the subjects of the first Year, viz :—Anatomy, Physics, Practical Chemistry and Inorganic Chemistry, Physiology, Histology, Biology and Bacteriology.

Allen, O. J. McC.
Arbuckle, J. W.
Arthur, J. R.
Bennett, S. J.
Black, J. R.
Bleasdell, W. A.
Burke, G. H.
Cameron, G. L.
Campbell, D. G., B.A.
Campbell, J. DeL.
Carr, J, B., B.A.
Chipman, R. L., M.A.
Clarke, J. C., B.A.
Clarke, T. L. E.
Craig, D. A.
Cross, C. E.
Davis, D.W.
Dewar, R. D.
DeWitt, C. E. A., B.A.
Dexter, R. B., B.A.
Dixon, J. A.
Donahoe, R. A.
Dunnet, H. W.
Enright, W. E., M.A.
Fenton, G. S.
Foster, L. S.
Freedman, A.
Gilmour, W. N.
Girvan, R. G.
Goodwin, B. E.
Gross, C. J.
Hand, W. T.
Hils, O. H., B.L.
Holbrook, C. E.
Hunter, W. B.
Jenkins, W. M.
Kaufmann, J.
Kelly, J. W.
Kirby, W. P. P., B.A.
Lees, F. W.
London. J. F
Lovering, J. E.
Lynch, J. G. B.
Lyon, G. R. D.
MacDonell, D. F., B.A.
MacLean, A. S.
McBride, W. P.
McCallum, J. S.
McCann, J. H.
McCordick, A. H.
McCowen, G. R.
McCrea, G. P.
McDonald, R. H.
McGrath, J. P., B.L.
McMillan, W. J. P.
McNaughton, D.A.
Martin, A. A.
Morin, J. H. G.
Murphy, G. B., B.A.
Ortenberg, S.
Powell, R. E., B.A.
Read, E. S., B.A.
Read, G. C., B.A.
Rowell, J. S.
Shanks, G., B.A.
Shankel, F. R.
Shewan, D. R.
Soley, L. A.
Stein, S. F.
Tannenbaum, D.
Tanton, E. T.
Thomas, M. W.
Tracy, W. L., B.A.
Vesey, E. M.
Wallace, I.
Waugh, O. S.
Wilson, K. M

In addition to those whose names appear on the above list as having passed in all the subjects of the First Year, the following have passed in;

HISTOLOGY.

Allen, J. A. L.
Allen, K. W.
Arton, O. A.
Baldwin, W. J., A.B.
Barry, J. L.
Bonness, E. J.
Carnell, A. H.
Cox, C. G.
Daigneau, P, L.
Donahue, H. F.
Drury, W. H.
Fraser, L. H.
Grady, A. B.
Gwyn, C. C.
McGrath, M. J.
McKay, W. H.
Mulgrew, T. B.
Nagle, F. W.
Robinson, Geo.
Rocheleau, W. C., B.A
Rodrigues, E. T.
Simpson. J. S.
Tolan, M. E., B.L.
Walsh, J. P., B.A.

ANATOMY.

Allen, J. A. L.
Allen, K. W.
Arton, O. A.
Barry, J. L.
Bonness, E. J.
Carnell, A. H.
Churchill, L. P.
Cox, C. G.
Crawford, J. W.
Donahue, H. F.
Drury. W. H.
Ewing, W. T.
Fraser, L. H.
Gabie, W. G.
Gardiner, A. E.
Grady, A. B.
Gwyn, C. C.
Hill, A. L., A.B.
Manning, G. M.
Nagle, F. W.
Robinson, Geo.
Rocheleau, W. C., B.A.
Simpson, J. S.
Taylor, T. H.
Tolan, M. E., B.L.
Townsend, F. A.
Walsh, J. P., B.A.

PHYSIOLOGY.

Allen, J. A. L.
Allen, K. W.
Arton, O. A.
Baldwin, W. J., A.B.
Barry, J. L.
Bonness, E. J.
Churchill, L. P.
Cox, C. G.
Daigneau, J. L.
Donahue, H. F.
Drury, W. H.
Gardiner, A. E.
Kennedy, A. H. N.
Nagle, F. W.
Paterson, J. H.
Robinson, Geo.
Rocheleau, W. C., B.A
Simpson, J. S.
Sparks, J. J.
Stewart, A.
Taylor, T. H.
Tolan, M. E., B.L.
Walsh, J. P., B.A.

PHYSICS.

Allen, K. W.
Arton, O. A.
Baldwin, W. J., A.B.
Barry, J. L.
Bonness, E. J.
Churchill, L. P.
Daigneau, P. L.
Donahue, H. F.
Drury, W. H.
Gardiner, A. E.
Gwyn, C. C.
Kaine, W. J., B.A.
Kennedy, A. H. N.
Manning, G. M.
Nagle, F. W.
Robinson, Geo.
Roche, J. G.
Rocheleau, W. C., B.A.
Simpson, J. S.
Taylor, T. H.
Tolan, M. E., B.L.
Walsh, J. P., B.A.

PRACTICAL CHEMISTRY.

Allen, J. A. L..
Allen, K. W.
Arton, O. A.
Baldwin, W. J., A.B.
Barry, J. L.
Bonness, E. J.
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Cox, C. G.
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Drury, W. H.
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Fraser, L. H.
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Grady, A. B.
Gwyn, C. C.
MacGillis, A. F.
McGrath, M. J.
Manning, G. M.
Mulgrew, T. B.
Nagle, F. W.
Robinson, Geo.
Simpson, J. S.
Stewart, A.
Taylor, T. H.

INORGANIC CHEMISTRY.

Cox, C. G.
Daigneau, P. L.
Gardiner, A. E.
Harry, A. C.
Manning, G. M.
Robinson, Geo.
Taylor, T. H.

BOTANY.

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Kaine, W. J., B.A.
Lindsay, L. M.
Manning, G. M.
Nagle, F. W.
Rocheleau, W. C., B.A.
Simpson, J. S.
Stewart, A.
Taylor, T. H.
Tolan, M. E., B.L.
Walsh, J. P., B.A.
Wilson, G. T.

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Cox, C. G.
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BACTERIOLOGY.

Allen, J. A. L.
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Baird, W. S.
Baldwin, W. J., A.B.
Barry, J. L.
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Nagle, F. W.
Penney, L. T. W.
Robinson, Geo.
Rocheleau W. C., B.A.
Simpson, J. S.
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Sutherland, R. H., B.A
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